Searcher Prep & Review Time: ______ Fulltext

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Online Time: ____

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| • | | REQUEST | | 1011. | DU |
| Requester's Full Name: Phone Art Unit: 1624 Phone Location (Bldg/Room#): 5 COI | ne Number: 2- C | 18 Results F | erial Number: format Preferred | (circle): (PAPE | Ř) DISK |
| To ensure an efficient and quality search | h, please attach a cop | y of the cover sheet, c | laims, and abstract (| or fill out the follow | wing: |
| Title of Invention: | | | | | |
| Inventors (please provide full name | s): | | | | |
| Earliest Priority Date: | | . , | | | |
| Secret Western | | | , | | |
| Search Topic: Please provide a detailed statement of the elected species or structures, keywords, sy Define any terms that may have a special | ynonyms, acronyms, a I meaning. Give exam | nd registry numbers, a ples or relevant citatio | na compine wan ine ns, authors, etc., if ki | nown. | , inc invenie |
| *For Sequence Searches Only* Please in | nclude all pertinent inj | formation (parent, chi | ld, divisional, or issu | ed patent numbers) | along with t |
| appropriate serial number. A A A A A A A A A A A A A A A A A A A | on . | N A |)g-Q ==================================== | / # (| othing of ranke ne |
| | must be a | unsaturated | | | |
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| STAFF USE ONLY | ************************************** | | · | *****************st where applical | |
| Searcher Phone #: | • | | • | OrbitLo | xis/Nexis |
| Searche: Location: | | cture (#) | Westlaw | wv | VW/Internet |
| Date Searcher Picked Up: | | | In-house sec | quence systems | |
| Date Completed: | Litigs | ation | Commercial Interference | Oligomer SPDI SPDI Sther (specify) | Score/Lengt Encode/Tra |

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(FILE 'HOME' ENTERED AT 11:39:17 ON 05 DEC 2005)

FILE 'REGISTRY' ENTERED AT 11:39:23 ON 05 DEC 2005
L1 STR

L2 0 SEA SSS SAM L1

L3 0 SEA SSS FUL L1

L4 STR L1

L5 45 SEA SSS SAM L4

L6 766 SEA SSS FUL L4

FILE 'HCAPLUS' ENTERED AT 11:42:44 ON 05 DEC 2005 L7 154 SEA ABB=ON PLU=ON L6

FILE 'REGISTRY' ENTERED AT 11:42:51 ON 05 DEC 2005

L8 STR L4

L9 571 SEA SUB=L6 SSS FUL L8

FILE 'HCAPLUS' ENTERED AT 11:43:40 ON 05 DEC 2005 L10 112 SEA ABB=ON PLU=ON L9

FILE 'REGISTRY' ENTERED AT 11:43:44 ON 05 DEC 2005

L11 STR L4

L12 516 SEA SUB=L6 SSS FUL L11

L13 250 SEA ABB=ON PLU=ON L6 NOT L12

L14 192 SEA ABB=ON PLU=ON L13 AND L9

FILE 'HCAPLUS' ENTERED AT 11:47:12 ON 05 DEC 2005 L15 91 SEA ABB=ON PLU=ON L14

FILE 'REGISTRY' ENTERED AT 11:48:05 ON 05 DEC 2005

L16 STR L8 L17 STR L16

L18 STR L17

L19 107 SEA SUB=L6 SSS FUL L18

D SCA

L20 169 SEA ABB=ON PLU=ON L14 NOT L19

FILE 'HCAPLUS' ENTERED AT 11:55:44 ON 05 DEC 2005

L21 91 SEA ABB=ON PLU=ON L20

L*** DEL 6 S L19

D QUE STAT L21

FILE 'REGISTRY' ENTERED AT 11:56:32 ON 05 DEC 2005

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 DEC 2005 HIGHEST RN 869277-23-6 DICTIONARY FILE UPDATES: 4 DEC 2005 HIGHEST RN 869277-23-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

FILE HCAPLUS

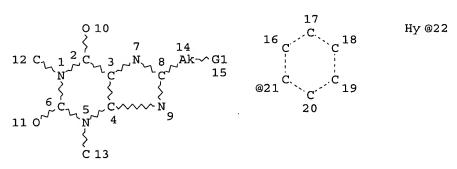
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FILE COVERS 1907 - 5 Dec 2005 VOL 143 ISS 24 FILE LAST UPDATED: 4 Dec 2005 (20051204/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que stat 120 L4 STR



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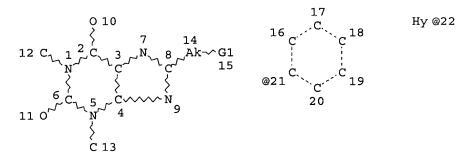
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CONNECT IS E3 RC AT 6
CONNECT IS E2 RC AT 7
CONNECT IS E2 RC AT 9
CONNECT IS E1 RC AT 10
CONNECT IS E1 RC AT 11
CONNECT IS E2 RC AT 14
DEFAULT MLEVEL IS ATOM
GGCAT IS UNS AT 22
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE

L6 766 SEA FILE=REGISTRY SSS FUL L4
L8 STR



VAR G1=21/22

NODE ATTRIBUTES:

CONNECT IS E3 RC AT CONNECT IS E3 RC AT 6 CONNECT IS E2 RC AT CONNECT IS E2 RC AT 9 CONNECT IS E1 RC AT 10 CONNECT IS E1 RC AT 11 CONNECT IS E2 RC AT DEFAULT MLEVEL IS ATOM IS SAT AT 14 GGCAT IS UNS AT 22 GGCAT DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE

L9 571 SEA FILE=REGISTRY SUB=L6 SSS FUL L8

L11 STR

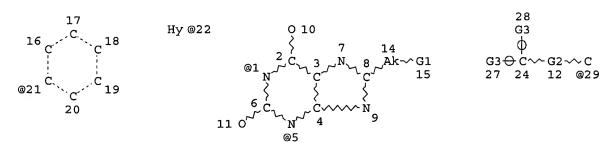
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GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 35

STEREO ATTRIBUTES: NONE

L12 516 SEA FILE=REGISTRY SUB=L6 SSS FUL L11
L13 250 SEA FILE=REGISTRY ABB=ON PLU=ON L6 NOT L12
L14 192 SEA FILE=REGISTRY ABB=ON PLU=ON L13 AND L9
L18 STR



VAR G1=21/22REP G2 = (0-8) C VAR G3=C/N/S VPA 29-1/5 U NODE ATTRIBUTES: CONNECT IS E3 RC AT CONNECT IS E3 RC AT CONNECT IS E2 RC AT CONNECT IS E2 RC AT CONNECT IS E1 RC AT CONNECT IS E1 RC AT CONNECT IS E2 RC AT DEFAULT MLEVEL IS ATOM GGCAT IS SAT AT 14 IS UNS AT GGCAT DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE

L19 107 SEA FILE=REGISTRY SUB=L6 SSS FUL L18

L20 169 SEA FILE=REGISTRY ABB=ON PLU=ON L14 NOT L19

=> d 120 ide ibib 1-169

L20 ANSWER 1 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 863291-11-6 REGISTRY

ED Entered STN: 16 Sep 2005

CN 1H-Purine-2,6-dione, 1-ethyl-3,7-dihydro-8-(1-phenylethyl)-3-propyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C18 H22 N4 O2

SR CA

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 143:248327 CA

TITLE: New pyrazolo[3,4-b]pyridones as selective A1 adenosine

receptor antagonists: Synthesis, biological evaluation

and molecular modeling studies

AUTHOR(S): Fossa, Paola; Pestarino, Marco; Menozzi, Giulia;

Mosti, Luisa; Schenone, Silvia; Ranise, Angelo; Bondavalli, Francesco; Trincavelli, M. Letizia;

Lucacchini, Antonio; Martini, Claudia

CORPORATE SOURCE: Dipartimento di Scienze Farmaceutiche, Universita

degli Studi di Genova, Genoa, 16132, Italy

SOURCE: Organic & Biomolecular Chemistry (2005), 3(12),

2262-2270

CODEN: OBCRAK; ISSN: 1477-0520

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 2 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 860227-07-2 REGISTRY ED Entered STN: 15 Aug 2005

CN Theophylline, 8-α-ethylbenzyl- (6CI) (CA INDEX NAME)

FS 3D CONCORD MF C16 H18 N4 O2

SR CAS EARLY REGISTRATIONS LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 54:7372 CA

TITLE: Theophylline derivatives

INVENTOR(S): Leake, Norman H.; Fielden, Marvel L.

PATENT ASSIGNEE(S): S. E. Massengill Co.

DOCUMENT TYPE: Patent LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2887486 19590519 US

L20 ANSWER 3 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 857749-29-2 REGISTRY

ED Entered STN: 01 Aug 2005

CN Theophylline, 8-(2-imidazolin-2-ylmethyl)- (5CI) (CA INDEX NAME)

FS 3D CONCORD

MF C11 H14 N6 O2

SR CAS EARLY REGISTRATIONS

LC STN Files: CA, CAPLUS, TOXCENTER

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

47:58549 CA

TITLE:

Theophylline derivatives. I. Analogs of 2-benzyl-2

imidazoline (Priscoline)

AUTHOR (S):

Hager, George P.; Krantz, John C., Jr.; Harmon, John

В.

CORPORATE SOURCE:

Univ. of Maryland, Baltimore

SOURCE:

Journal of the American Pharmaceutical Association

(1912-1977) (1953), 42, 36-9 CODEN: JPHAA3; ISSN: 0003-0465

DOCUMENT TYPE:

OCOMENT TIPE:

LANGUAGE:

Unavailable

L20 ANSWER 4 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

Journal

RN 805970-77-8 REGISTRY

ED Entered STN: 30 Dec 2004

CN Pyridinium, 3-(aminocarbonyl)-1-[2-(2,3,6,7-tetrahydro-1,3-dimethyl-2,6-

dioxo-1H-purin-8-yl)ethyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C15 H17 N6 O3

CI COM

SR CA

Me
$$CH_2-CH_2$$
 N CH_2 CH_2 N CH_2 CH_2 N CH_2 CH_2 N CH_2 CH_2

L20 ANSWER 5 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 773849-23-3 REGISTRY

ED Entered STN: 02 Nov 2004

CN 2-Propenamide, N-hydroxy-3-[4-[(2,3,6,7-tetrahydro-1,3-dimethyl-2,6-dioxo-1H-purin-8-yl)methyl]phenyl]-, (2E)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C17 H17 N5 O4

CI COM

SR CA

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 6 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748795-14-4 REGISTRY

ED Entered STN: 21 Sep 2004

CN 1H-Purine-1-pentanesulfonic acid, 3-[2-(4-aminophenyl)ethyl]-2,3,6,7-tetrahydro-2,6-dioxo-8-(phenylmethyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C25 H29 N5 O5 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

$$CH_2$$
 CH_2
 CH_2

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 14

141:225207 CA

TITLE:

Al adenosine receptor antagonists

INVENTOR(S):

Wilson, Constance N.; Partridge, John J.

PATENT ASSIGNEE(S):

Endacea Inc., USA

SOURCE:

PCT Int. Appl., 41 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

Fudit

FAMILY ACC. NUM. COUNT: 1

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PATENT NO.
                  KIND DATE
                                 APPLICATION NO. DATE
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                                       -----
    WO 2004074247 A2 20040902
WO 2004074247 A3 20050602
                                      WO 2004-US4627 20040217
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            BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR,
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    CA 2516250 AA 20040902
                                   CA 2004-2516250 20040217
    US 2005119258
                    A1 20050602
                                        US 2004-780296
                                                        20040217
PRIORITY APPLN. INFO.:
                                        US 2003-448212P 20030219
                                        WO 2004-US4627 20040217
L20 ANSWER 7 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
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- RN 748795-13-3 REGISTRY
- ED Entered STN: 21 Sep 2004
- CN 1H-Purine-1-octanesulfonic acid, 3-[2-(4-aminophenyl)ethyl]-2,3,6,7-tetrahydro-2,6-dioxo-8-(phenylmethyl)- (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C28 H35 N5 O5 S
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL

$$CH_2$$
 CH_2
 CH_2

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225207 CA

TITLE: A1 adenosine receptor antagonists

Wilson, Constance N.; Partridge, John J. INVENTOR(S):

PATENT ASSIGNEE(S): Endacea Inc., USA SOURCE:

PCT Int. Appl., 41 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent

English LANGUAGE:

FAMILY ACC. NUM. COUNT:

| PATENT | NO | KIND | DATE | | A | PPLI | CATI | ON N | ο. | DATE | | | |
|--------------|--------------------|--------|----------|-------|-----|------|-------|------|-----|------|------|-----|-----|
| | 1074247 1074247 | | 2004090 | | W | 0 20 | 04-U | S462 | 7 | 2004 | 0217 | | |
| | AE, AE, | | | _ | AM. | AT. | AT. | AIJ. | A7. | Α7. | BA. | BB. | BG. |
| | | | , BY, BY | | | | | • | | • | - | - | |
| | | - | , DE, DE | | | | | | | • | • | | |
| | | | , GD, GE | | | | | - | | | • | • | |
| | IS, JP, | JP, KE | , KE, KG | , KG, | ΚP, | ΚP, | ΚP, | KR, | KR, | ΚZ, | ΚZ, | KZ, | LC, |
| | LK, LR, | LS, LS | , LT, LU | , LV, | MA, | MD, | MD, | MG, | MK, | MN, | MW, | MX, | MX, |
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| | | | , NE, SN | | • | BF, | ВJ, | CF, | CG, | CI, | CM, | GΑ, | GN, |
| | | - | , NE, SN | | | | | | | | | | |
| | 5250 | | | | | | | | | | | | |
| US 2005 | 5119258 | A1 | 2005060 | 2 | U | S 20 | 04-7 | 8029 | 6 | 2004 | 0217 | | |
| PRIORITY API | PLN. INFO |).: | | | U | S 20 | 03-4 | 4821 | 2P | 2003 | 0219 | | |
| | | | | | W | 0 20 | 04 -U | S462 | 7 | 2004 | 0217 | | |

L20 ANSWER 8 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

748795-12-2 REGISTRY RN

Entered STN: 21 Sep 2004 ED

CNBenzoic acid, 3-[2-[1,2,6,7-tetrahydro-2,6-dioxo-8-(phenylmethyl)-1-propyl-

3H-purin-3-yl]ethyl]- (9CI) (CA INDEX NAME)

3D CONCORD FS

MF C24 H24 N4 O4

SR CA

STN Files: CA, CAPLUS, USPATFULL LC

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225207 CA

TITLE:

Al adenosine receptor antagonists

INVENTOR(S):

Wilson, Constance N.; Partridge, John J.

PATENT ASSIGNEE(S):

Endacea Inc., USA

SOURCE:

PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

| PATE | NT 1 | . OI | | KI | ND : | DATE | | | A. | PPLI | CATI | и ис | ο. | DATE | | | |
|------|------|------|-----|-----|------|------|------|-----|-----|------|------|------|-----|------|------|-----|-----|
| | | | | | | | | | - | | | | | | | | |
| WO 2 | 0040 | 0742 | 47 | A: | 2 | 2004 | 0902 | | W | 20 | 04-U | S462 | 7 | 2004 | 0217 | | |
| WO 2 | 0040 | 0742 | 47 | A. | 3 | 2005 | 0602 | | | | | | | | | | |
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| | | BG, | BR, | BR, | BW, | BY, | BY, | ΒZ, | ΒZ, | CA, | CH, | CN, | CN, | CO, | CO, | CR, | CR, |
| | | CU, | CU, | CZ, | CZ, | DE, | DE, | DK, | DK, | DM, | DZ, | EC, | EC, | EE, | EE, | EG, | ES, |
| | | ES, | FI, | FI, | GB, | GD, | GE, | GE, | GH, | GM, | HR, | HR, | HU, | ΗU, | ID, | IL, | IN, |
| | | IS, | JP, | JP, | KE, | KE, | KG, | KG, | KP, | KP, | KP, | KR, | KR, | ΚZ, | ΚZ, | ΚZ, | LC, |
| | | LK, | LR, | LS, | LS, | LT, | LU, | LV, | MA, | MD, | MD, | MG, | MK, | MN, | MW, | MX, | MX, |
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CA 2516250 AA 20040902 CA 2004-2516250 20040217
US 2005119258 A1 20050602 US 2004-780296 20040217

US 2005119258 A1 20050602 US 2004-780296 20040217 PRIORITY APPLN. INFO.: US 2003-448212P 20030219 WO 2004-US4627 20040217

L20 ANSWER 9 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748795-11-1 REGISTRY

ED Entered STN: 21 Sep 2004

CN 1H-Purine-2,6-dione, 8-[(2-aminophenyl)methyl]-3,7-dihydro-3-(2-phenylethyl)-1-propyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C23 H25 N5 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225207 CA

TITLE: Al adenosine receptor antagonists

INVENTOR(S): Wilson, Constance N.; Partridge, John J.

PATENT ASSIGNEE(S): Endacea Inc., USA SOURCE: PCT Int. Appl., 41 pp.

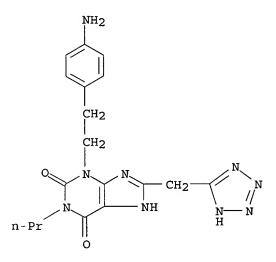
CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

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|-----|------|------|-----|-----|---------------------------------|------|------|-----|-----|------|--------|-------|------|------|----------|-----|-----|
| | | | | | | | | | _ | | | | | | - | | |
| WO | 2004 | 0742 | 47 | A: | 2 | 2004 | 0902 | | W | 20 | 04 - U | S462 | 7 | 2004 | 0217 | | |
| WO | 2004 | 0742 | 47 | A. | A3 20050602 G, AL, AL, AM, A | | | | | | | | | | | | |
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| | | BG, | BR, | BR, | BW, | BY, | BY, | BZ, | BZ, | CA, | CH, | CN, | CN, | CO, | CO, | CR, | CR, |
| | | CU, | CU, | CZ, | CZ, | DE, | DE, | DK, | DK, | DM, | DZ, | EC, | EC, | EE, | EE, | EG, | ES, |
| | | ES, | FI, | FI, | GB, | GD, | GE, | GE, | GH, | GM, | HR, | HR, | HU, | HU, | ID, | IL, | IN, |
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| | | LK. | LR. | LS. | LS. | LT. | LU. | LV. | MA. | MD. | MD. | MG. | MK. | MN. | MW. | MX. | MX. |

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MZ, MZ, NA, NI
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             MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
             GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN,
             GQ, GW, ML, MR, NE, SN, TD, TG
                            20040902
                                           CA 2004-2516250
                                                            20040217
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                     AΑ
                                           US 2004-780296
     US 2005119258
                      A1
                            20050602
                                                            20040217
PRIORITY APPLN. INFO.:
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                                                            20030219
                                           WO 2004-US4627
                                                            20040217
L20 ANSWER 10 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
     748795-09-7 REGISTRY
RN
     Entered STN: 21 Sep 2004
ED
     1H-Purine-2,6-dione, 3-[2-(4-aminophenyl)ethyl]-3,7-dihydro-1-propyl-8-(1H-
CN
     tetrazol-5-ylmethyl) - (9CI) (CA INDEX NAME)
     3D CONCORD
FS
     C18 H21 N9 O2
MF
SR
     CA
     STN Files: CA, CAPLUS, USPATFULL
LC
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1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225207 CA

TITLE: Al adenosine receptor antagonists

INVENTOR(S): Wilson, Constance N.; Partridge, John J.

PATENT ASSIGNEE(S): Endacea Inc., USA SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

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KIND DATE
                                         APPLICATION NO. DATE
    PATENT NO.
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                                         WO 2004-US4627
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    WO 2004074247
                     A2
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                     A3
                           20050602
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            CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES,
            ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN,
            IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, KZ, LC,
            LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX,
            MZ, MZ, NA, NI
        RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
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            GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN,
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                                                          20040217
                                          CA 2004-2516250
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PRIORITY APPLN. INFO.:
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                                          WO 2004-US4627
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L20
     748795-08-6 REGISTRY
RN
     Entered STN: 21 Sep 2004
ED
     1H-Purine-2,6-dione, 3-[2-(4-aminophenyl)ethyl]-3,7-dihydro-1-propyl-8-(2-
CN
     thienylmethyl) - (9CI) (CA INDEX NAME)
FS
     3D CONCORD
MF
    C21 H23 N5 O2 S
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STN Files: CA, CAPLUS, USPATFULL

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

SR LC ACCESSION NUMBER: 141:225207 CA

TITLE: Al adenosine receptor antagonists

INVENTOR(S): Wilson, Constance N.; Partridge, John J.

PATENT ASSIGNEE(S): Endacea Inc., USA SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

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APPLICATION NO. DATE
    PATENT NO.
                  KIND DATE
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    WO 2004074247 A2 20040902
WO 2004074247 A3 20050602
                                       WO 2004-US4627 20040217
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            ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN,
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            GQ, GW, ML, MR, NE, SN, TD, TG
    CA 2516250
                   AA 20040902
                                        CA 2004-2516250 20040217
                                         US 2004-780296
    US 2005119258
                     A1
                          20050602
                                                         20040217
                                         US 2003-448212P 20030219
PRIORITY APPLN. INFO.:
                                         WO 2004-US4627 20040217
L20 ANSWER 12 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
    748795-06-4 REGISTRY
RN
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- ED Entered STN: 21 Sep 2004
- CN 1H-Purine-1-propanesulfonic acid, 3-[2-(4-aminophenyl)ethyl]-2,3,6,7-tetrahydro-2,6-dioxo-8-(phenylmethyl)- (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C23 H25 N5 O5 S
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL

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 CH_2
 CH_2

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225207 CA

TITLE:

Al adenosine receptor antagonists

INVENTOR(S):

Wilson, Constance N.; Partridge, John J.

PATENT ASSIGNEE(S):

Endacea Inc., USA

SOURCE:

PCT Int. Appl., 41 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

| PATENT | NO. | KIND | DATE | | A | PPLI | CATI | ON NO | ο. | DATE | | | |
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| | 074247 074247 | | 20040902 20050602 | | M. | 0 20 | 04-U: | 5462 | 7 | 2004 | 0217 | | |
| | AE, AE, BG, BR, CU, CU, ES, FI, IS, JP, | AG, AL, BR, BW, CZ, CZ, FI, GB, JP, KE, | AL, AM, BY, BY, DE, DE, GD, GE, KE, KG, | AM, BZ, DK, GE, KG, | BZ, DK, GH, KP, | CA, DM, GM, KP, | CH, DZ, HR, KP, | CN, EC, HR, KR, | CN, EC, HU, KR, | CO, EE, HU, KZ, | CO, EE, ID, KZ, | CR, EG, IL, KZ, | CR, ES, IN, LC, |
| RW: | MZ, MZ, BW, GH, BG, CH, MC, NL, GQ, GW, | NA, NI GM, KE, CY, CZ, PT, RO, ML, MR, | LT, LU, LS, MW, DE, DK, SE, SI, NE, SN, NE, SN, | MZ, EE, SK, TD, | SD, ES, TR, TG, | SL, FI, BF, | SZ, FR, BJ, | TZ, GB, CF, | UG, GR, CG, | ZM, HU, CI, | ZW, IE, CM, | AT, IT, GA, | BE, LU, GN, |
| | 119258 | A1 | 20040902 20050602 | | U: | S 20 | 04-71 03-4 | 8029 4821 | 6 2 P | | 0217 0219 | | |

L20 ANSWER 13 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

748795-05-3 REGISTRY RN

ED Entered STN: 21 Sep 2004

CN Benzenesulfonic acid, 4-[2-[1,2,6,7-tetrahydro-2,6-dioxo-8-(phenylmethyl)-1-propyl-3H-purin-3-yl]ethyl]- (9CI) (CA INDEX NAME)

3D CONCORD FS

MF C23 H24 N4 O5 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225207 CA

TITLE:

Al adenosine receptor antagonists

INVENTOR(S):

Wilson, Constance N.; Partridge, John J.

PATENT ASSIGNEE(S):

Endacea Inc., USA PCT Int. Appl., 41 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

| PATENT NO. | KIND DA | TE | APPLICATION NO. | DATE | | | | | |
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| | | | | | | | | | |
| WO 2004074247 | A2 20 | 040902 | WO 2004-US4627 | 20040217 | | | | | |
| WO 2004074247 | A3 20 | | | | | | | | |
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| CU, CU, | CZ, CZ, D | E, DE, DK, | DK, DM, DZ, EC, E | C, EE, EE, EG, ES, | | | | | |
| ES, FI, | FI, GB, G | D, GE, GE, | GH, GM, HR, HR, H | U, HU, ID, IL, IN, | | | | | |
| IS, JP, | JP, KE, K | E, KG, KG, | KP, KP, KP, KR, K | R, KZ, KZ, KZ, LC, | | | | | |
| LK, LR, | LS, LS, L | T, LU, LV, | MA, MD, MD, MG, M | K, MN, MW, MX, MX, | | | | | |

MZ, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG AACA 2004-2516250 20040217 20040902 CA 2516250 20040217 20050602 US 2004-780296 US 2005119258 A1 20030219 US 2003-448212P PRIORITY APPLN. INFO.: WO 2004-US4627 20040217

L20 ANSWER 14 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748795-04-2 REGISTRY

ED Entered STN: 21 Sep 2004

CN Benzenesulfonic acid, 4-[4-[1,2,6,7-tetrahydro-2,6-dioxo-8-(phenylmethyl)-1-propyl-3H-purin-3-yl]butyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C25 H28 N4 O5 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225207 CA

TITLE: Al adenosine receptor antagonists

INVENTOR(S): Wilson, Constance N.; Partridge, John J.

PATENT ASSIGNEE(S): Endacea Inc., USA

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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    WO 2004074247 A2 20040902
WO 2004074247 A3 20050602
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            MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
            GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN,
            GQ, GW, ML, MR, NE, SN, TD, TG
                                          CA 2004-2516250 20040217
                    AA 20040902
     CA 2516250
                                                           20040217
                      A1
                           20050602
                                          US 2004-780296
     US 2005119258
PRIORITY APPLN. INFO.:
                                          US 2003-448212P
                                                           20030219
                                          WO 2004-US4627
                                                           20040217
    ANSWER 15 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
L20
     748795-03-1 REGISTRY
RN
     Entered STN: 21 Sep 2004
ED
     Hexanamide, N-[4-[2-[1,2,6,7-tetrahydro-2,6-dioxo-8-(phenylmethyl)-1-
CN
     propyl-3H-purin-3-yl]ethyl]phenyl]- (9CI) (CA INDEX NAME)
FS
     3D CONCORD
     C29 H35 N5 O3
MF
SR
     CA
     STN Files: CA, CAPLUS, USPATFULL
LC
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- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225207 CA
TITLE: A1 adenosine receptor antagonists
INVENTOR(S): Wilson, Constance N.; Partridge, John J.

PATENT ASSIGNEE(S): Endacea Inc., USA SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE: Patent English

FAMILY ACC. NUM. COUNT: 1

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KIND DATE
    PATENT NO.
                                      APPLICATION NO. DATE
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    WO 2004074247 A2 20040902
WO 2004074247 A3 20050602
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            CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES,
            ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN,
            IS, JP, JP, KE, KE, KG, KG, KP, KP, KR, KR, KZ, KZ, KZ, LC,
            LK, LR, LS, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MX,
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                   AA 20040902
                                       CA 2004-2516250 20040217
    CA 2516250
                     A1 20050602
    US 2005119258
                                        US 2004-780296
                                                        20040217
PRIORITY APPLN. INFO.:
                                        US 2003-448212P 20030219
                                        WO 2004-US4627 20040217
    ANSWER 16 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
L20
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- RN 748795-02-0 REGISTRY
- ED Entered STN: 21 Sep 2004
- CN 1H-Purine-2,6-dione, 3-[2-(4-aminophenyl)ethyl]-1-[3-(dimethylamino)propyl]-3,7-dihydro-8-(phenylmethyl)- (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C25 H30 N6 O2
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL

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1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225207 CA

TITLE:

Al adenosine receptor antagonists

INVENTOR(S):

Wilson, Constance N.; Partridge, John J.

PATENT ASSIGNEE(S):

Endacea Inc., USA

SOURCE:

PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

| PA' | PATENT NO. KIN | | | | | DATE | | | A | PPLI | CATI | ои ис | ο. | DATE | | | |
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| | RW: | BW, BG, MC, GQ, | GH, CH, NL, GW, | GM, CY, PT, ML, | KE, CZ, RO, MR, | DE, SE, | DK, SI, SN, | EE, SK, TD, | ES, TR, TG, | FI, BF, | FR, BJ, | GB, CF, | GR, CG, | ZM, HU, CI, | IE, CM, | IT, GA, | LU, GN, |
| US | CA 2516250 US 2005119258 PRIORITY APPLN. INFO. | | | | | | | | US US | 5 200 5 200 | 04-78 03-4 | 30296 18212 | 6 2 P | | 0217 0219 | | |

L20 ANSWER 17 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

748795-01-9 REGISTRY RN

Entered STN: 21 Sep 2004 ED

1H-Purine-2,6-dione, 3-[2-(4-aminophenyl)ethyl]-3,7-dihydro-1-(3-CNmethoxypropyl)-8-(phenylmethyl)- (9CI) (CA INDEX NAME)

3D CONCORD FS

C24 H27 N5 O3 MF

SR CA

STN Files: CA, CAPLUS, USPATFULL LC

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225207 CA

TITLE:

Al adenosine receptor antagonists

INVENTOR(S):

Wilson, Constance N.; Partridge, John J.

PATENT ASSIGNEE(S):

Endacea Inc., USA

SOURCE:

PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

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| | | | | | | | | | - | | | | | | - - | | |
| WO 20 | 040 | 7424 | | | _ | 2004 | 0902 | | W | 20 | 04 - U | S462° | 7 | 2004 | 0217 | | |
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| | (| CU, | CU, | CZ, | CZ, | DE, | DE, | DK, | DK, | DM, | DZ, | EC, | EC, | EE, | EE, | EG, | ES, |
| | I | ES, | FI, | FI, | GB, | GD, | GE, | GE, | GH, | GM, | HR, | HR, | HU, | HU, | ID, | ΙL, | IN, |
| | | IS, | JP, | JP, | ΚE, | KΕ, | KG, | KG, | ΚP, | KP, | KΡ, | KR, | KR, | ΚZ, | KZ, | KZ, | LC, |
| |] | LK, | LR, | LS, | LS, | LT, | LU, | LV, | MA, | MD, | MD, | MG, | MK, | MN, | MW, | MX, | MX, |

MZ, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG CA 2516250 AA 20040902 CA 2004-2516250 20040217 US 2005119258 A1 20050602 US 2004-780296 20040217 PRIORITY APPLN. INFO.: US 2003-448212P 20030219 WO 2004-US4627 20040217

L20 ANSWER 18 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748794-99-2 REGISTRY

ED Entered STN: 21 Sep 2004

CN 1H-Purine-2,6-dione, 3-[2-(4-aminophenyl)ethyl]-3,7-dihydro-1-propyl-8-(4-thiazolylmethyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C20 H22 N6 O2 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

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 NH_2

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225207 CA

TITLE: Al adenosine receptor antagonists

INVENTOR(S): Wilson, Constance N.; Partridge, John J.

PATENT ASSIGNEE(S): Endacea Inc., USA
SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

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PATENT NO.
                   KIND DATE
                                         APPLICATION NO. DATE
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                           20040902
                                         WO 2004-US4627
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    WO 2004074247
                     A2
                    A3
                           20050602
    WO 2004074247
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PRIORITY APPLN. INFO.:
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L20
    748794-98-1 REGISTRY
RN
    Entered STN: 21 Sep 2004
ED
    1H-Purine-2,6-dione, 3-[2-(4-aminophenyl)ethyl]-3,7-dihydro-1-propyl-8-(3-
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FS
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    C22 H24 N6 O2
MF
SR
    CA
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STN Files: CA, CAPLUS, USPATFULL

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

LC

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141:225207 CA
ACCESSION NUMBER:
                                Al adenosine receptor antagonists
TITLE:
                                Wilson, Constance N.; Partridge, John J.
INVENTOR(S):
                                Endacea Inc., USA
PATENT ASSIGNEE(S):
                                PCT Int. Appl., 41 pp.
                                CODEN: PIXXD2
DOCUMENT TYPE:
                                Patent
                                English
LANGUAGE:
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
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                          KIND DATE
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                         A2 20040902
A3 20050602
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PRIORITY APPLN. INFO.:
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L20
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ED
      1H-Purine-2,6-dione, 3-[2-(4-aminophenyl)ethyl]-3,7-dihydro-8-
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FS
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MF

SR LC C23 H25 N5 O2

STN Files: CA, CAPLUS, USPATFULL

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225207 CA

TITLE:

Al adenosine receptor antagonists

INVENTOR(S):

Wilson, Constance N.; Partridge, John J. Endacea Inc., USA

PATENT ASSIGNEE(S):

PCT Int. Appl., 41 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

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ANSWER 21 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN L20

748794-94-7 REGISTRY RN

C23 H23 N5 O4

Entered STN: 21 Sep 2004 ED

1H-Purine-2,6-dione, 3,7-dihydro-3-[2-(4-nitrophenyl)ethyl]-8-CN(phenylmethyl) -1-propyl- (9CI) (CA INDEX NAME)

FS

3D CONCORD

SR CA

MF

STN Files: CA, CAPLUS, TOXCENTER, USPATFULL LC

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

142:197759 CA

TITLE:

Preparation of xanthine derivatives for use in

pharmaceutical compositions as Al adenosine receptor

antagonists

INVENTOR(S):

Wilson, Constance N.; Partridge, John J.

PATENT ASSIGNEE(S):

Endacea, Inc., USA PCT Int. Appl., 69 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

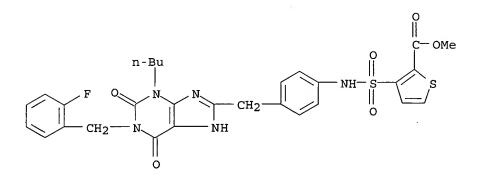
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| WO 2005009343 | A2 2005 | 50203 WC | O 2004-US18044 | 20040604 |
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PRIORITY APPLN. INFO.:
                                           US 2003-476684P 20030606
REFERENCE 2
                        142:56315 CA
ACCESSION NUMBER:
                         Preparation of Al adenosine receptor antagonists as
TITLE:
                         diagnostic agents or the treatment of related diseases
                         Wilson, Constance N.; Partridge, John J.
INVENTOR(S):
                         Endacea, Inc., USA
PATENT ASSIGNEE(S):
                         PCT Int. Appl., 45 pp.
SOURCE:
                         CODEN: PIXXD2
DOCUMENT TYPE:
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                         English
LANGUAGE:
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
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ACCESSION NUMBER:
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TITLE:
                         Al adenosine receptor antagonists
                         Wilson, Constance N.; Partridge, John J.
INVENTOR(S):
                         Endacea Inc., USA
PATENT ASSIGNEE(S):
                         PCT Int. Appl., 41 pp.
SOURCE:
                         CODEN: PIXXD2
                         Patent
DOCUMENT TYPE:
                         English
LANGUAGE:
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
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PATENT NO. KIND DATE APPLICATION NO. DATE
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WO 2004074247 A2 20040902
WO 2004074247 A3 20050602
                                   WO 2004-US4627 20040217
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                      A1
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PRIORITY APPLN. INFO.:
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                                                            20040217
    ANSWER 22 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
L20
     748148-80-3 REGISTRY
RN
    Entered STN: 20 Sep 2004
ED
     2-Thiophenecarboxylic acid, 3-[[[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-
CN
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FS
    3D CONCORD
    C29 H28 F N5 O6 S2
MF
SR
                 CA, CAPLUS, USPATFULL
LC
    STN Files:
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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ----------WO 2004074288 A1 20040902 WO 2004-EP1289 20040212 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2004-776697 A1 20040930 20040211 US 2004192708 CA 2514472 AA 20040902 CA 2004-2514472 20040212 EP 1599477 A1 20051130 EP 2004-710346 20040212 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK PRIORITY APPLN. INFO.: US 2003-448562P 20030219 US 2003-448652P 20030219 US 2004-536561P 20040115 WO 2004-EP1289 20040212 REFERENCE COUNT: THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS 2

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 23 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-78-9 REGISTRY

ED Entered STN: 20 Sep 2004

CN 2-Thiophenesulfonamide, 4,5-dibromo-N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C27 H24 Br2 F N5 O4 S2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
 - 1 REFERENCES IN FILE CA (1907 TO DATE)
 - 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR (S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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L20 ANSWER 24 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

748148-76-7 REGISTRY Entered STN: 20 Sep 2004 RN

ED

2-Thiophenesulfonamide, 5-bromo-N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-CN2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

C27 H25 Br F N5 O4 S2 MF

SR

STN Files: CA, CAPLUS, USPATFULL LC

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1 REFERENCES IN FILE CA (1907 TO DATE)
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

APPLICATION NO. DATE

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

KIND DATE

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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L20 ANSWER 25 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
    748148-75-6 REGISTRY
    Entered STN: 20 Sep 2004
ED
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RN

2-Thiophenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-CN tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-5-chloro- (9CI) (CA INDEX NAME)

3D CONCORD FS

C27 H25 Cl F N5 O4 S2 MF

SR

LC STN Files: CA, CAPLUS, USPATFULL

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
                       KIND DATE
                                              APPLICATION NO. DATE
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     WO 2004074288
                       A1
                              20040902
                                              WO 2004-EP1289
                                                                20040212
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              CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
         GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
              BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
              MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
             GQ, GW, ML, MR, NE, SN, TD, TG
                       A1
                                              US 2004-776697
     US 2004192708
                              20040930
                                                                 20040211
     CA 2514472
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                        AA
                              20040902
                        A1
                                              EP 2004-710346 20040212
     EP 1599477
                              20051130
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
PRIORITY APPLN. INFO.:
                                              US 2003-448562P 20030219
                                              US 2003-448652P 20030219
                                              US 2004-536561P 20040115
                                              WO 2004-EP1289
                                                                 20040212
REFERENCE COUNT:
                          2
                                 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
                                 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
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L20 ANSWER 26 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-74-5 REGISTRY

ED Entered STN: 20 Sep 2004

CN 2-Thiophenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C27 H26 F N5 O4 S2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

| PA' | PATENT NO. | | | | ND | DATE | | | A. | PPLI | CATI | ои ис | 0. | DATE | | | |
|----------|--|---|--|--|--|--|---|--|--|--|--|--|---|--|---|---------------------------------|--------------------------------|
| | | | | | | | | | - | | | | | | | | |
| WO | 2004 | 0742 | 38 | A. | 1 | 2004 | 0902 | | W | 20 | 04-E | P128 | 9 | 20040 | 212 | | |
| | W: | ΑE, | AG, | AL, | AM, | AT, | AU, | AZ, | BA, | BB, | BG, | BR, | BW, | BY, | BZ, | CA, | CH, |
| | | | | | | | | | | | | | | ES, | | | |
| | | | | | | | | | | | | | | | | | |
| | LK, LR, LS, LT, LU, LV | | | | | | | | | • | | • | • | • | • | , | |
| | RW: BW, GH, GM, KE, LS, MW | | | | | | | | | | | | | | | | |
| | RW: BW, GH, GM, KE, LS, MW BG, CH, CY, CZ, DE, DR | | | | | | | | | | | | | | | | |
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| | | | | | | | - | - | | BF, | BU, | CF, | CG, | CI, | CM, | GA, | GN, |
| | | GQ, | GW, | ML, | MR, | NΕ, | SN, | TD, | TG | | | | | | | | |
| US | 2004 | 1927 | 8 C | A: | 1 | 2004 | 0930 | | U | 5 20 | 04-7 | 7669 | 7 | 20040 | 211 | | |
| CA | 2514 | 472 | | A. | Ą | 2004 | 0902 | | C | A 20 | 04-2 | 5144 | 72 | 20040 | 212 | | |
| EP | 1599 | 477 | | A: | 1 | 2005 | 1130 | | E | P 20 | 04-7 | 1034 | 6 | 20040 | 212 | | |
| | EP 1599477 A1 20051130 R: AT, BE, CH, DE, DK, ES, | | | | | | | | | | | | | | | MC. | PT. |
| | | | | | | | | | | | | | | | | | / |
| PRIORIT | IE, SI, LT, LV, FI, RO, CORITY APPLN. INFO.: | | | | | | | | | | | | | | | | |
| | | - •• | | | | | | | | | | | | | | | |
| CA EP | 2004 2514 1599 R: | GE, LK, BW, BG, MC, GQ, 19270 472 477 AT, IE, | GH, LR, GH, CH, NL, GW, D8 | GM, LS, GM, CY, PT, ML, A: A: CH, LT, | HR, LT, KE, CZ, RO, MR, 1 A | HU, LU, LS, DE, SE, NE, 2004(2004) | ID, LV, MW, DK, SI, SN, 0930 0902 1130 ES, | IL, MA, MZ, EE, SK, TD, | IN, MD, SD, ES, TR, TG CA CA CY, US | IS, MG, SL, FI, BF, S 200 A 200 GR, AL, S 200 | JP, MK, SZ, FR, BJ, 04-7: 04-7: IT, TR, 03-44 | KE, MN, TZ, GB, CF, 7669' 5144' 10346 LI, BG, | KG, MW, UG, GR, CG, 7 72 6 LU, CZ, 2P | KP, MX, ZM, HU, CI, 2004(2004(NL, | KR, MZ, ZW, IE, CM, 0211 0212 0212 SE, HU, 0219 | KZ, NA, AT, IT, GA, | LC, NI BE, LU, GN, |

US 2004-536561P 20040115 WO 2004-EP1289 20040212

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 27 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-73-4 REGISTRY

ED Entered STN: 20 Sep 2004

CN 3-Pyridinesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-6-chloro-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C28 H26 Cl F N6 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

| PATENT NO. | | | | KI | OIV. | DATE | | | APPLICATION NO. | | | | | DATE | | | |
|------------|------|------------|-----|-----|-------------|------|-----|-----|---------------------|-----|-----|-----|-----|------|-----|-----|-------|
| | | | | | | | | | | | | | | | | | |
| WO | 2004 | 2004074288 | | | A1 20040902 | | | | WO 2004-EP1289 2004 | | | | | | | | |
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| | | CN, | CO, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | EG, | ES, | FI, | GB, | GD, |
| | | GE, | GH, | GM, | HR, | HU, | ID, | IL, | IN, | IS, | JP, | KE, | KG, | ΚP, | KR, | KZ, | LC, |
| | | LK, | LR, | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ, | NA, | NI |
| | RW: | BW, | GH, | GM, | KE, | LS, | MW, | MZ, | SD, | SL, | SZ, | TZ, | UG, | ZM, | ZW, | AT, | BE, |
| | | BG. | CH. | CY. | CZ. | DE. | DK. | EE. | ES. | FT. | FR. | GB. | GR. | HU. | TE. | TT. | T.II. |

MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,

GQ, GW, ML, MR, NE, SN, TD, TG

20040930 US 2004-776697 20040211 **A**1 US 2004192708 20040902 CA 2004-2514472 20040212 AΑ CA 2514472 **A1** 20051130 EP 2004-710346 20040212 EP 1599477

AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRIORITY APPLN. INFO.: US 2003-448562P 20030219

US 2003-448652P 20030219 20040115 US 2004-536561P

WO 2004-EP1289 20040212

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS 2 REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 28 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN L20

RN

748148-72-3 REGISTRY Entered STN: 20 Sep 2004 ED

2,1,3-Benzothiadiazole-4-sulfonamide, N-[4-[[3-butyl-1-[(2-CNfluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8yl]methyl]phenyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

C29 H26 F N7 O4 S2 MF

SR

STN Files: CA, CAPLUS, USPATFULL LC

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

141:225208 CA ACCESSION NUMBER:

Preparation of sulfonamide substituted xanthine TITLE:

derivatives as PEPCK inhibitors

Foley, Louise Helen; Huby, Nicholas John Silvester; INVENTOR(S):

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

F. Hoffmann-La Roche A.-G., Switz. PATENT ASSIGNEE(S):

PCT Int. Appl., 124 pp. SOURCE:

CODEN: PIXXD2

Patent DOCUMENT TYPE:

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. KIND DATE _____ _____ WO 2004074288 A1 20040902 WO 2004-EP1289 20040212 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG A1 20040930 US 2004-776697 20040211 US 2004192708 20040902 CA 2004-2514472 20040212 CA 2514472 AAEP 2004-710346 20040212 A1 20051130 EP 1599477 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK PRIORITY APPLN. INFO.: US 2003-448562P 20030219 US 2003-448652P 20030219 US 2004-536561P 20040115 WO 2004-EP1289 20040212 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 2

L20 ANSWER 29 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-70-1 REGISTRY

ED Entered STN: 20 Sep 2004

CN 2,1,3-Benzoxadiazole-4-sulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C29 H26 F N7 O5 S

SR CF

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

141:225208 CA ACCESSION NUMBER:

Preparation of sulfonamide substituted xanthine TITLE:

derivatives as PEPCK inhibitors

Foley, Louise Helen; Huby, Nicholas John Silvester; INVENTOR(S):

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

F. Hoffmann-La Roche A.-G., Switz. PATENT ASSIGNEE(S):

PCT Int. Appl., 124 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT:

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KIND DATE
                                         APPLICATION NO. DATE
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    WO 2004074288
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             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
        RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
             BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
            MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
             GQ, GW, ML, MR, NE, SN, TD, TG
                                          US 2004-776697
                     A1 20040930
                                                            20040211
    US 2004192708
                                          CA 2004-2514472 20040212
                      AA 20040902
     CA 2514472
                      A1 20051130
                                         EP 2004-710346 20040212
    EP 1599477
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
PRIORITY APPLN. INFO.:
                                           US 2003-448562P 20030219
                                           US 2003-448652P 20030219
                                           US 2004-536561P 20040115
                                           WO 2004-EP1289
                                                            20040212
                               THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
                         2
REFERENCE COUNT:
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
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- ANSWER 30 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
- RN
- 748148-69-8 REGISTRY Entered STN: 20 Sep 2004 ED
- 1-Naphthalenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-CN 2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-5-(dimethylamino) - (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C35 H35 F N6 O4 S
- SR
- CA, CAPLUS, USPATFULL LC STN Files:

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1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

Preparation of sulfonamide substituted xanthine TITLE:

derivatives as PEPCK inhibitors

Foley, Louise Helen; Huby, Nicholas John Silvester; INVENTOR(S):

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

PCT Int. Appl., 124 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT:

| PATENT NO. | KIND DATE | APPLICATION NO. DATE |
|----------------------|-----------------|---|
| | | |
| WO 2004074288 | A1 20040902 | WO 2004-EP1289 20040212 |
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| CN, CO | CR, CU, CZ, DE, | DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, |
| | | IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, |
| LK, LR | LS, LT, LU, LV, | MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI |
| RW: BW, GH | GM, KE, LS, MW, | MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, |
| BG, CH | CY, CZ, DE, DK, | EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, |
| MC, NL | PT, RO, SE, SI, | SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, |
| GQ, GW | ML, MR, NE, SN, | TD, TG |
| US 2004192708 | A1 20040930 | US 2004-776697 20040211 |
| CA 2514472 | AA 20040902 | CA 2004-2514472 20040212 |
| EP 1599477 | A1 20051130 | EP 2004-710346 20040212 |
| R: AT, BE, | CH, DE, DK, ES, | FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, |
| IE, SI | LT, LV, FI, RO, | MK, CY, AL, TR, BG, CZ, EE, HU, SK |
| PRIORITY APPLN. INFO |).: | US 2003-448562P 20030219 |
| | | US 2003-448652P 20030219 |
| | | US 2004-536561P 20040115 |
| | | WO 2004-EP1289 20040212 |
| REFERENCE COUNT: | 2 THERE | ARE 2 CITED REFERENCES AVAILABLE FOR THIS |
| | | |

ANSWER 31 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN L20

748148-68-7 REGISTRY RN

ED Entered STN: 20 Sep 2004

CN1-Naphthalenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

C33 H30 F N5 O4 S MF

SR

STN Files: CA, CAPLUS, USPATFULL LC

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

| PAT | ENT 1 | . OI | | KII | I DV | DATE | | | A | PPLI | CATIO | ON NO | ο. | DATE | | | |
|-----|-------|-------|-----|-----|------|------|------|-----|-----|------|-------|-------|-----|------|------|-----|-----|
| | | | | | | | | | - | | | | | | | | |
| WO | 2004 | 07428 | 88 | A: | 1 : | 2004 | 0902 | | W | 200 | 04-E | P128 | 9 | 2004 | 0212 | | |
| | W: | ΑE, | AG, | AL, | AM, | ΑT, | ΑU, | ΑZ, | BA, | BB, | BG, | BR, | BW, | BY, | ΒZ, | CA, | CH, |
| | | CN, | CO, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | EG, | ES, | FI, | GB, | GD, |
| | | GE, | GH, | GM, | HR, | HU, | ID, | IL, | IN, | IS, | JP, | ΚE, | KG, | KP, | KR, | ΚZ, | LC, |
| | | LK, | LR, | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ, | NA, | NI |
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| | | BG, | CH, | CY, | CZ, | DE, | DK, | EE, | ES, | FI, | FR, | GB, | GR, | HU, | ΙE, | IT, | LU, |
| | | MC, | NL, | PT, | RO, | SE, | SI, | SK, | TR, | BF, | ВJ, | CF, | CG, | CI, | CM, | GA, | GN, |
| | | GO, | GW, | ML, | MR, | NE, | SN, | TD, | TG | | | | | | | | |

US 2004192708 A1 20040930 US 2004-776697 20040211 CA 2514472 AA 20040902 CA 2004-2514472 20040212 EP 1599477 A1 20051130 EP 2004-710346 20040212

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRIORITY APPLN. INFO.: US 2003-448562P 20030219

US 2003-448652P 20030219 US 2004-536561P 20040115 WO 2004-EP1289 20040212

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 32 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-67-6 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-4-methoxy-2,3,6-

trimethyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C33 H36 F N5 O5 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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20040902
                                           WO 2004-EP1289
                                                             20040212
    WO 2004074288
                       A1
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             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
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             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
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             BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
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                                                             20040211
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                                                             20040212
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                                           EP 2004-710346
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     EP 1599477
                       A1
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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                                            US 2003-448562P 20030219
PRIORITY APPLN. INFO.:
                                            US 2003-448652P
                                                             20030219
                                            US 2004-536561P
                                                             20040115
                                            WO 2004-EP1289
                                                             20040212
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                               THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 33 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
L20
     748148-66-5 REGISTRY
Entered STN: 20 Sep 2004
ΡN
ED
     Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-
CN
     tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2,3,5,6-tetramethyl-
           (CA INDEX NAME)
     (9CI)
     3D CONCORD
FS
     C33 H36 F N5 O4 S
MF
SR
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STN Files: CA, CAPLUS, USPATFULL

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

LÇ

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. KIND DATE _____ ----_____ WO 2004-EP1289 20040212 WO 2004074288 A1 20040902 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2004-776697 US 2004192708 A1 20040930 20040211 CA 2004-2514472 20040212 CA 2514472 AA 20040902 EP 2004-710346 EP 1599477 20040212 A1 20051130 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK PRIORITY APPLN. INFO.: US 2003-448562P 20030219 US 2003-448652P 20030219 US 2004-536561P 20040115 WO 2004-EP1289 20040212

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS 2 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 34 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN L20

RN 748148-65-4 REGISTRY

ED Entered STN: 20 Sep 2004

Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-CN tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2,4-dichloro-5-methyl-(CA INDEX NAME)

3D CONCORD FS

C30 H28 Cl2 F N5 O4 S MF

SR

STN Files: CA, CAPLUS, USPATFULL LC

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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APPLICATION NO. DATE
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         WO 2004074288
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Al 20040902

WO 2004-EP1289

20040212

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, MI, MP, NE, SN, TD, TG
                                           A1 20040902
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         US 2004192708 A1 20040930
CA 2514472 AA 20040902
EP 1599477 A1 20051130
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                 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                                                                     US 2003-448562P 20030219
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US 2004-536561P 20040115
WO 2004-EP1289 20040212
PRIORITY APPLN. INFO.:
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REFERENCE COUNT:
                                                              RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
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L20 ANSWER 35 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

748148-63-2 REGISTRY RN

Entered STN: 20 Sep 2004 ED

Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2,4-dichloro-6-methyl-(9CI) (CA INDEX NAME)

3D CONCORD FS

MF C30 H28 Cl2 F N5 O4 S

SR

STN Files: CA, CAPLUS, USPATFULL LC

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
                                   KIND DATE
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        WO 2004074288
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                                             20040902
                                                                     WO 2004~EP1289
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              W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
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PRIORITY APPLN. INFO.:
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                                                                     WO 2004-EP1289
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                                                  THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
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REFERENCE COUNT:
                                                  RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
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L20 ANSWER 36 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-61-0 REGISTRY ED Entered STN: 20 Sep 2004 CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-4-chloro-2,5-dimethyl-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C31 H31 Cl F N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

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| WO | 2004 | 0742 | 88 | A | 1 | 2004 | 0902 | | W | 20 | 04-E | P128 | 9 | 2004 | 0212 | | |
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| | | GΕ, | GH, | GM, | HR, | HU, | ID, | IL, | IN, | IS, | JP, | KΕ, | KG, | KΡ, | KR, | KZ, | LC, |
| | | LK, | LR, | LS, | LT, | LU, | ·LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ, | NΑ, | NI |
| | RW: | BW, | GH, | GM, | KΕ, | LS, | MW, | MZ, | SD, | SL, | SZ, | TZ, | UG, | ZM, | ZW, | ΑT, | BE, |
| | | BG, | CH, | CY, | CZ, | DE, | DK, | EE, | ES, | FI, | FR, | GB, | GR, | HU, | ΙE, | ΙΤ, | LU, |
| | | MC, | NL, | PT, | RO, | SE, | SI, | SK, | TR, | BF, | ВJ, | CF, | CG, | CI, | CM, | GA, | GN, |
| | | GQ, | GW, | ML, | MR, | NE, | SN, | TD, | TG | | | | | | | | |
| US | 2004 | 1927 | 8 0 | A | 1 | 2004 | 0930 | | U | S 20 | 04-7 | 7669 | 7 | 2004 | 0211 | | |
| CA | 2514 | 472 | | \mathbf{A} | A | 2004 | 0902 | | C | A 20 | 04-2 | 5144 | 72 | 2004 | 0212 | | |
| EP 1599477 A1 20051130 | | | | | | | | | E | P 20 | 04-7 | 1034 | 6 | 2004 | 0212 | | |
| | R: | ΑT, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | IT, | LI, | LU, | NL, | SE, | MC, | PT, |
| | | ΙE, | SI, | LT, | LV, | FI, | RO, | MK, | CY, | AL, | TR, | BG, | CZ, | EE, | HU, | SK | |
| PRIORIT | Y APP | LN. | INFO | . : | | | | | U | S 20 | 03-44 | 4856 | 2 P | 2003 | 0219 | | |

US 2003-448652P 20030219 US 2004-536561P 20040115 WO 2004-EP1289 20040212

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS 2 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 37 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN L20

748148-60-9 REGISTRY RN

Entered STN: 20 Sep 2004 ED

Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-CNtetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2,4,6-trimethyl- (9CI) (CA INDEX NAME)

3D CONCORD FS

MF C32 H34 F N5 O4 S

SR

CA, CAPLUS, USPATFULL LCSTN Files:

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

| PA | rent 1 | NO. | | KII | ND | DATE | | | A. | PPLI | CATI | ON NO | ο. : | DATE | | | |
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| | | | | | | | | | - | | - - | | | | | | |
| WO | 2004 | 0742 | 88 | A: | 1 | 2004 | 0902 | | W | 20 | 04-E | P128 | 9 | 2004 | 0212 | | |
| | W: | ΑE, | AG, | AL, | AM, | ΑT, | AU, | ΑZ, | BA, | BB, | BG, | BR, | BW, | BY, | ΒZ, | CA, | CH, |
| | | CN, | CO, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | EG, | ES, | FI, | GB, | GD, |
| | | GE, | GH, | GM, | HR, | HU, | ID, | IL, | IN, | IS, | JP, | KE, | KG, | ΚP, | KR, | ΚZ, | LC, |
| | | LK, | LR, | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ, | NA, | NI |
| | RW: | BW, | GH, | GM, | KE, | LS, | MW, | MZ, | SD, | SL, | SZ, | TZ, | UG, | ZM, | ZW, | AT, | BE, |

BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,

GQ, GW, ML, MR, NE, SN, TD, TG

20040211 US 2004-776697 US 2004192708 A1 20040930 CA 2004-2514472 20040212 20040902 CA 2514472 AAEP 2004-710346 20040212 20051130 EP 1599477 A1

AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRIORITY APPLN. INFO.: US 2003-448562P 20030219 US 2003-448652P 20030219

US 2004-536561P 20040115 WO 2004-EP1289 20040212

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS 2 REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 38 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

748148-59-6 REGISTRY RN

Entered STN: 20 Sep 2004 ED

Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-3,4-difluoro- (9CI) INDEX NAME)

FS 3D CONCORD

C29 H26 F3 N5 O4 S MF

SR

STN Files: CA, CAPLUS, USPATFULL LC

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

141:225208 CA ACCESSION NUMBER:

Preparation of sulfonamide substituted xanthine TITLE:

derivatives as PEPCK inhibitors

Foley, Louise Helen; Huby, Nicholas John Silvester; INVENTOR(S):

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

F. Hoffmann-La Roche A.-G., Switz. PATENT ASSIGNEE(S):

PCT Int. Appl., 124 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English APPLICATION NO. DATE

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. ---------WO 2004-EP1289 20040902 WO 2004074288 A1 20040212 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG 20040930 US 2004-776697 20040211 US 2004192708 **A1** 20040902 CA 2004-2514472 20040212 CA 2514472 AA 20051130 EP 2004-710346 20040212 EP 1599477 A1 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK PRIORITY APPLN. INFO.: US 2003-448562P 20030219 US 2003-448652P 20030219 US 2004-536561P 20040115 WO 2004-EP1289 20040212 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L20 ANSWER 39 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN 748148-58-5 REGISTRY RN Entered STN: 20 Sep 2004 ED Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-CN

tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2,6-difluoro- (9CI) (CA INDEX NAME)

FS 3D CONCORD

C29 H26 F3 N5 O4 S MF

SR

STN Files: CA, CAPLUS, USPATFULL LC

KIND DATE

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

Preparation of sulfonamide substituted xanthine TITLE:

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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| WO 2004074288 | A1 20040902 | WO 2004-EP1289 20040212 |
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| GE, GH, | GM, HR, HU, ID, IL, | IN, IS, JP, KE, KG, KP, KR, KZ, LC, |
| LK, LR, | LS, LT, LU, LV, MA, | MD, MG, MK, MN, MW, MX, MZ, NA, NI |
| RW: BW, GH, | GM, KE, LS, MW, MZ, | SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, |
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| MC, NL, | PT, RO, SE, SI, SK, | TR, BF, BJ, CF, CG, CI, CM, GA, GN, |
| GQ, GW, | ML, MR, NE, SN, TD, | TG |
| US 2004192708 | A1 20040930 | US 2004-776697 20040211 |
| CA 2514472 | AA 20040902 | CA 2004-2514472 20040212 |
| EP 1599477 | A1 20051130 | EP 2004-710346 20040212 |
| R: AT, BE, | CH, DE, DK, ES, FR, | GB, GR, IT, LI, LU, NL, SE, MC, PT, |
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| PRIORITY APPLN. INFO |).: | US 2003-448562P 20030219 |
| | | US 2003-448652P 20030219 |
| | | US 2004-536561P 20040115 |
| | | WO 2004-EP1289 20040212 |

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 40 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-56-3 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-3-chloro-4-fluoro- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C29 H26 Cl F2 N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

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1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

Foley, Louise Helen; Huby, Nicholas John Silvester; INVENTOR(S):

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

F. Hoffmann-La Roche A.-G., Switz. PATENT ASSIGNEE(S):

PCT Int. Appl., 124 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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KIND DATE
     PATENT NO.
                                           APPLICATION NO. DATE
     WO 2004074288 A1 20040902 WO 2004-EP1289 20040212
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             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
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             GQ, GW, ML, MR, NE, SN, TD, TG
     US 2004192708 A1 20040930
                      A1 20040930 US 2004-776697 20040211
AA 20040902 CA 2004-2514472 20040212
A1 20051130 EP 2004-710346 20040212
     CA 2514472
     EP 1599477
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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PRIORITY APPLN. INFO.:
                                             US 2003-448562P 20030219
                                             US 2003-448652P 20030219
US 2004-536561P 20040115
                                             WO 2004-EP1289
                                                               20040212
                                THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
                          2
REFERENCE COUNT:
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
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L20 ANSWER 41 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

748148-54-1 REGISTRY RN

Entered STN: 20 Sep 2004 ED

Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-CNtetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2-methyl-5-nitro- (9CI) (CA INDEX NAME)

3D CONCORD FS

C30 H29 F N6 O6 S MF

SR

LC STN Files: CA, CAPLUS, USPATFULL

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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| | | CN, | CO, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | EG, | ES, | FI, | GB, | GD, |
| | | GE, | GH, | GM, | HR, | HU, | ID, | IL, | IN, | IS, | JP, | KE, | KG, | KΡ, | KR, | ΚZ, | LC, |
| | | LK, | LR, | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ, | NA, | NI |
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| | | GQ, | GW, | ML, | MR, | NE, | SN, | TD, | TG | | | | | | • | | • |
| US | 2004 | 1927 | 08 | A | 1 | 2004 | 0930 | | U: | S 20 | 04-7 | 7669 | 7 | 2004 | 0211 | | |
| CZ | A 2514 | 472 | | A | A | 2004 | 0902 | | C | A 20 | 04-2 | 5144 | 72 | 2004 | 0212 | | |
| EI | 2 1599 | 477 | | Α | 1 | 2005 | 1130 | | E | P 20 | 04-7 | 1034 | 6 | 2004 | 0212 | | |
| | | | | | | | | | | | | | | NL, | | MC, | PT. |
| | | | • | • | • | | • | | | | • | • | • | EE, | • | • | • |
| PRIORIT | TY APP | | | | • | , | • | , | | | | • | • | 2003 | | | |
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| Littl | | Q2. 1 · | | | - | | | | | | | | - | | | | FORMAT |
| | | | | | | IC. | LCOIC. | J. A. | UU C. | LIAI | 101/2 | AVA. | . unun | 1111 | 'A T111 | i Kii | LOKUMI |

L20 ANSWER 42 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-52-9 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2,4-difluoro-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C29 H26 F3 N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

| PAT | rent | NO. | | KI | ND | DATE | | | A | PPLI | CATI | ON NO | o. : | DATE | | | |
|------------------------|------------------|------|-----|-----|------|------|------|-----|------|------|------|-------|------|------|------|-----|-----|
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| WO | 2004 | 0742 | 88 | Α | 1 | 2004 | 0902 | | W | O 20 | 04-E | P128 | 9 | 2004 | 0212 | | |
| | W: | ΑE, | AG, | ΑL, | AM, | AT, | AU, | ΑZ, | BA, | BB, | BG, | BR, | BW, | BY, | BZ, | CA, | CH, |
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| | | LK, | LR, | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ, | NA, | NI |
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| | | GQ, | GW, | ML, | MR, | NE, | SN, | TD, | TG | | | | | | | | |
| US | US 2004192708 A1 | | | | | 2004 | 0930 | | U | S 20 | 04-7 | 7669 | 7 | 2004 | 211 | | |
| CA 2514472 AA 20040902 | | | | | | 0902 | | C | A 20 | 04-2 | 5144 | 72 | 2004 | 212 | | | |
| EP 1599477 A1 2 | | | | | 2005 | 1130 | | E | P 20 | 04-7 | 1034 | 5 | 2004 | 0212 | | | |
| | R: | ΑT, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | IT, | LI, | LU, | NL, | SE, | MC, | PT, |

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRIORITY APPLN. INFO.:

US 2003-448562P 20030219 US 2003-448652P 20030219 US 2004-536561P 20040115

WO 2004-EP1289 20040212

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 43 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-51-8 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2-chloro-4-fluoro- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C29 H26 Cl F2 N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

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 & \text{CH}_2 & \text{NH} & \text{CH}_2
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

| PAT | CENT I | NO. | | KI | ND | DATE | | | A | PPLI | CATI | ои ис | ο. | DATE | | | |
|-----|--------|------|--------|-----|-------|------|------|-----|-----|------|----------|-------|-------|------|------|-----|-----|
| WO | 2004 | 0742 | 88 | A | 1 | 2004 | 0902 | | W | 20 | 04-E | P128 | 9 | 2004 | 0212 | | |
| | W: | ΑE, | AG, | AL, | AM, | ΑT, | AU, | ΑZ, | BA, | BB, | BG, | BR, | BW, | BY, | ΒZ, | CA, | CH, |
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LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2004-776697 20040211 US 2004192708 Α1 20040930 CA 2004-2514472 20040212 CA 2514472 AA 20040902 EP 2004-710346 EP 1599477 Α1 20051130 20040212 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK PRIORITY APPLN. INFO.: US 2003-448562P 20030219 US 2003-448652P 20030219 US 2004-536561P 20040115 WO 2004-EP1289 20040212 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 2

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 44 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-50-7 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-5-fluoro-2-methyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C30 H29 F2 N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

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APPLICATION NO. DATE
                     KIND DATE
    PATENT NO.
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                                         WO 2004-EP1289
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    WO 2004074288
                     A1
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            LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
        RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
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            MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
            GQ, GW, ML, MR, NE, SN, TD, TG
                                         US 2004-776697
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                     A1 20040930
    US 2004192708
                                          CA 2004-2514472 20040212
    CA 2514472
                           20040902
                      AA
                           20051130
                                          EP 2004-710346
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    EP 1599477
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PRIORITY APPLN. INFO.:
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                                          US 2004-536561P 20040115
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REFERENCE COUNT:
                              RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
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- L20 ANSWER 45 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
- RN 748148-48-3 REGISTRY
- ED Entered STN: 20 Sep 2004
- CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2,5-dimethyl- (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C31 H32 F N5 O4 S
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
 - 1 REFERENCES IN FILE CA (1907 TO DATE)
 - 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Facelite English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

INDEX NAME)
3D CONCORD

C29 H26 Cl2 F N5 O4 S

STN Files: CA, CAPLUS, USPATFULL

FS

MF SR

LC

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PATENT NO.
                               KIND DATE
                                                                 APPLICATION NO. DATE
        WO 2004074288 A1 20040902
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                                 A1 20040930
       US 2004192708
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       CA 2514472
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                                                                  EP 2004-710346
       EP 1599477
                                  A1
                                           20051130
                                                                                            20040212
             R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
PRIORITY APPLN. INFO.:
                                                                  US 2003-448562P 20030219
US 2003-448652P 20030219
                                                                  US 2004-536561P 20040115
                                                                  WO 2004-EP1289
                                                                                             20040212
REFERENCE COUNT:
                                      2
                                                THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
                                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
       ANSWER 46 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
L20
       748148-47-2 REGISTRY
Entered STN: 20 Sep 2004
RN
ED
       Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-
CN
       tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-3,4-dichloro- (9CI)
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1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| | PAT | CENT I | NO. | | KI | ND : | DATE | | | A | PPLI | CATI | ON NO | ο. | DATE | | | |
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| | WO | 2004 | 0742 | 88 | A | 1 | 2004 | 0902 | | W | 0 20 | 04-E | P128 | 9 | 2004 | 0212 | * | |
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| | | | LK, | LR, | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ, | NA, | NI |
| | | RW: | BW, | GH, | GM, | KE, | LS, | MW, | MZ, | SD, | SL, | SZ, | TZ, | UG, | ZM, | ZW, | AT, | BE, |
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| | US | 2004 | 1927 | 80 | Α | 1 | 2004 | 0930 | | U | S 20 | 04-7 | 7669 | 7 | 2004 | 0211 | | |
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| | | R: | AT, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | IT, | LI, | LU, | NL, | SE, | MC, | PT, |
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| | | | | | | | | | | W | 0 20 | 04-E | P128 | 9 | 2004 | 0212 | | |
| REFER | RENC | CE CO | UNT: | | | 2 | T | HERE | ARE | 2 C | ITED | REF | EREN | CES | AVAI | LABLE | FOF | THIS |

L20 ANSWER 47 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

RN 748148-46-1 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-3,5-dichloro-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C29 H26 Cl2 F N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

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 & C1 \\
 & NH \\
 & CH_2 \\
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 & C1 \\
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

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derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

CODE

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

| PATENT NO. | KIND DATE | APPLICATION NO. DATE |
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| WO 2004074288 | A1 20040902 | WO 2004-EP1289 20040212 |
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| GE, GH, | GM, HR, HU, ID, | IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, |
| LK, LR, | LS, LT, LU, LV, | MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI |
| RW: BW, GH, | GM, KE, LS, MW, | MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, |
| BG, CH, | CY, CZ, DE, DK, | EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, |
| MC, NL, | PT, RO, SE, SI, | SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, |
| GQ, GW, | ML, MR, NE, SN, | TD, TG |
| US 2004192708 | A1 20040930 | US 2004-776697 20040211 |
| CA 2514472 | AA 20040902 | CA 2004-2514472 20040212 |

EP 1599477 A1 20051130 EP 2004-710346 20040212

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRIORITY APPLN. INFO.: US 2003-448562P 20030219

US 2003-448652P 20030219 US 2004-536561P 20040115

WO 2004-EP1289 20040212

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 48 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-44-9 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2-chloro-6-methyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C30 H29 C1 F N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE
WO 2004074288 A1 20040902 WO 2004-EP1289 20040212

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG 20040211 US 2004192708 **A1** 20040930 US 2004-776697 CA 2004-2514472 20040212 20040902 CA 2514472 AΑ EP 2004-710346 EP 1599477 Α1 20051130 20040212 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK PRIORITY APPLN. INFO.: US 2003-448562P 20030219 US 2003-448652P 20030219 US 2004-536561P 20040115 WO 2004-EP1289 20040212 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS 2 REFERENCE COUNT:

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 49 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-42-7 REGISTRY

Entered STN: 20 Sep 2004 ED

Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-CN tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-3,4-dimethoxy- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C31 H32 F N5 O6 S

SR

STN Files: CA, CAPLUS, USPATFULL LC

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

Preparation of sulfonamide substituted xanthine TITLE:

derivatives as PEPCK inhibitors

Foley, Louise Helen; Huby, Nicholas John Silvester; INVENTOR (S):

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz. SOURCE:

PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE PATENT NO. -----_____ _____ WO 2004074288 A1 WO 2004-EP1289 20040212 20040902 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG A1 20040930 US 2004-776697 20040211 US 2004192708 20040902 CA 2004-2514472 20040212 CA 2514472 AA EP 2004-710346 20040212 EP 1599477 A1 20051130 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK PRIORITY APPLN. INFO.: US 2003-448562P 20030219 US 2003-448652P 20030219 US 2004-536561P 20040115 WO 2004-EP1289 20040212 REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS 2 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 50 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN L20

RN748148-41-6 REGISTRY

Entered STN: 20 Sep 2004 ED

Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-CNtetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2,3-dichloro- (9CI) (CA INDEX NAME)

3D CONCORD FS

MF C29 H26 Cl2 F N5 O4 S

SR

STN Files: CA, CAPLUS, USPATFULL LC

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

LC

PCT Int. Appl., 124 pp.

CODEN: PIXXD2

STN Files: CA, CAPLUS, USPATFULL

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

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APPLICATION NO. DATE
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WO 2004074288 A1 20040902 WO 2004-EP1289 20040212

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RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

IIS 2004192708
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A1 20051130
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                                                                        EP 2004-710346 20040212
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US 2003-448652P 20030219
PRIORITY APPLN. INFO.:
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REFERENCE COUNT:
                                          2
                                                     THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
                                                     RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
        ANSWER 51 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
L20
        748148-39-2 REGISTRY
RN
        Entered STN: 20 Sep 2004
ED
        Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-
        tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2,6-dichloro- (9CI) (CA
         INDEX NAME)
FS
        3D CONCORD
MF
        C29 H26 Cl2 F N5 O4 S
SR
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1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
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                                                  APPLICATION NO. DATE
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                         A1 20040930
                                                  US 2004-776697
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1599477 A1 20051130 EP 2004-710346 20040212

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
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US 2003-448652P 20030219
PRIORITY APPLN. INFO.:
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                                                   WO 2004-EP1289
                                                                       20040212
REFERENCE COUNT:
                                    THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
                                    RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
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L20 ANSWER 52 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-37-0 REGISTRY ED Entered STN: 20 Sep 2004 CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-3-chloro-2-methyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C30 H29 Cl F N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

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| | | | | | | | | | | | | | | | | | |
| WO | 2004 | 0742 | 88 | A | 1 | 2004 | 0902 | | W | 20 | 04-E | P128 | 9 | 2004 | 0212 | | |
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| | | GE, | GH, | GM, | HR, | HU, | ID, | IL, | IN, | IS, | JP, | ΚE, | KG, | ΚP, | KR, | ΚZ, | LC, |
| | | LK, | LR, | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ, | NΑ, | NI |
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| | | MC, | NL, | PT, | RO, | SE, | SI, | SK, | TR, | BF, | ВJ, | CF, | CG, | CI, | CM, | GΑ, | GN, |
| | | GQ, | GW, | ML, | MR, | NE, | SN, | TD, | TG | | | | | | | | |
| US | 2004 | 1927 | 8 0 | A | 1 | 2004 | 0930 | | U | S 20 | 04-7 | 7669 | 7 | 2004 | 0211 | | |
| CA | 2514 | 472 | | \mathbf{A} | A | 2004 | 0902 | | C | A 20 | 04-2 | 5144 | 72 | 2004 | 0212 | | |
| EP | EP 1599477 A1 2005113 | | | | | | | | E | P 20 | 04-7 | 1034 | 6 | 2004 | 0212 | | |
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| PRIORIT | Y APP | LN. | INFO | . : | | | | | U | S 20 | 03-44 | 4856 | 2P | 2003 | 0219 | | |

Berch PCT/US04/04627

US 2003-448652P 20030219 US 2004-536561P 20040115 WO 2004-EP1289 20040212

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 53 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-35-8 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2,5-dichloro-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C29 H26 Cl2 F N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|----------|----------|-----------------|----------|
| | | | | |
| WO 2004074288 | A1 | 20040902 | WO 2004-EP1289 | 20040212 |
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LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2004-776697 20040211 US 2004192708 A1 20040930 CA 2004-2514472 20040212 CA 2514472 AA 20040902 EP 2004-710346 EP 1599477 A1 20051130 20040212 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK PRIORITY APPLN. INFO.: US 2003-448562P 20030219 20030219 US 2003-448652P US 2004-536561P 20040115 WO 2004-EP1289 20040212

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 54 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-33-6 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2-methoxy-5-methyl-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C31 H32 F N5 O5 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

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PATENT NO.
                                       KIND DATE
                                                                             APPLICATION NO.
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         WO 2004074288
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                                                  20040930
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                                                                             US 2003-448562P 20030219
US 2003-448652P 20030219
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REFERENCE COUNT:
                                                        RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
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- L20 ANSWER 55 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
- RN 748148-31-4 REGISTRY
- ED Entered STN: 20 Sep 2004
- CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-3-chloro-4-methyl- (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C30 H29 Cl F N5 O4 S
- SR CA
- LC STN Files: CA, CAPLUS, USPATFULL

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- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
 - 1 REFERENCES IN FILE CA (1907 TO DATE)
 - 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR (S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE (S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

LC

English

STN Files: CA, CAPLUS, USPATFULL

FAMILY ACC. NUM. COUNT: 1

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PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2004074288 A1 20040902 WO 2004-EP1289 20040212

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US 2004192708 A1 20040930 US 2004-776697 20040212
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A1 20051130
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US 2003-448652P 20030219
PRIORITY APPLN. INFO.:
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REFERENCE COUNT:
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L2.0
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RN
ED
         Entered STN: 20 Sep 2004
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          tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2,5-dimethoxy- (9CI)
          (CA INDEX NAME)
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          3D CONCORD
         C31 H32 F N5 O6 S
MF
SR
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1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
                              KIND DATE
                                                           APPLICATION NO. DATE
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       WO 2004074288
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                                                           WO 2004-EP1289
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                  GQ, GW, ML, MR, NE, SN, TD, TG
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                                      20051130
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PRIORITY APPLN. INFO.:
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                                           THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
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L20 ANSWER 57 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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RN 748148-27-8 REGISTRY
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ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2,4-dichloro-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C29 H26 Cl2 F N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

| PATENT NO. | | | | KIND | | DATE | | | APPLICATION NO. DATE | | | | | | | | | |
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| WO | 2004074288 | | | A: | 1 | 20040902 | | | WO 2004-EP1289 20040212 | | | | | | | | | |
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| | | BG, | CH, | CY, | CZ, | DE, | DK, | EE, | ES, | FI, | FR, | GB, | GR, | HU, | ΙĒ, | IT, | LU, | |
| | | MC, | NL, | PT, | RO, | SE, | SI, | SK, | TR, | BF, | ВJ, | CF, | CG, | CI, | CM, | GA, | GN, | |
| | | GQ, | GW, | ML, | MR, | NE, | SN, | TD, | TG | | | | | | | | | |
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IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRIORITY APPLN. INFO.:

US 2003-448562P 20030219 US 2003-448652P 20030219 US 2004-536561P 20040115

WO 2004-EP1289 20040212

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 58 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-25-6 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-4-fluoro-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C29 H27 F2 N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

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| WO | 2004 | 0742 | 88 | A | 1 | 2004 | 0902 | | Mo | 20 | 04-E | P128 | 9 | 2004 | 0212 | | |
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| | | CN, | CO, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | EG, | ES, | FI, | GB, | GD, |
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REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 59 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-23-4 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-4-(trifluoromethoxy)-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C30 H27 F4 N5 O5 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

APPLICATION NO. DATE KIND DATE PATENT NO. _____ _____ _____ 20040212 20040902 WO 2004-EP1289 WO 2004074288 A1 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2004-776697 20040211 US 2004192708 A1 20040930 CA 2004-2514472 20040212 20040902 CA 2514472 AAEP 2004-710346 20040212 20051130 EP 1599477 A1 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK PRIORITY APPLN. INFO.: US 2003-448562P 20030219 US 2003-448652P 20030219 US 2004-536561P 20040115 WO 2004-EP1289 20040212 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS 2 REFERENCE COUNT:

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 60 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-21-2 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-4-ethyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C31 H32 F N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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US 2003-448652P 20030219
PRIORITY APPLN. INFO.:
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REFERENCE COUNT:
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L20 ANSWER 61 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-19-8 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-4-(trifluoromethyl)-

(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C30 H27 F4 N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

141:225208 CA ACCESSION NUMBER:

Preparation of sulfonamide substituted xanthine TITLE:

derivatives as PEPCK inhibitors

Foley, Louise Helen; Huby, Nicholas John Silvester; INVENTOR(S):

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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EP 2004-710346 20040212

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PRIORITY APPLN. INFO.:
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REFERENCE COUNT:
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L20 ANSWER 62 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN

748148-17-6 REGISTRY Entered STN: 20 Sep 2004 ED

Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-CN tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-4-methoxy- (9CI) (CA INDEX NAME)

3D CONCORD FS

C30 H30 F N5 O5 S MF

SR

STN Files: CA, CAPLUS, USPATFULL LC

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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| | | | MC, | NL, | PT, | RO, | SE, | SI, | SK, | TR, | BF, | ВJ, | CF, | CG, | CI, | CM, | GΑ, | GN, |
| | | | GQ, | GW, | ML, | MR, | ΝE, | SN, | TD, | TG | | | | | | | | |
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| | | | ΙĖ, | SI, | LT, | LV, | FI, | RO, | MK, | CY, | AL, | TR, | BG, | CZ, | EE, | HU, | SK | |
| PRIORI: | TY A | PPI | ĹΝ. : | INFO | . : | | | | | U | S 200 | 03-44 | 4856 | 2 P | 2003 | 0219 | | |
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| | | | | | | | | | | W | 200 | 04-E | P128 | 9 | 2004 | 0212 | | |
| REFERE | NCE | COL | JNT: | | | 2 | T: | HERE | ARE | 2 C | ITED | REF | EREN | CES | AVAI | LABLI | E FO | RTHIS |
| | | | | | | | R | ECOR | D. A | LL C | ITAT: | IONS | AVA: | ILAB | LE II | N THE | E RE | FORMAT |

L20 ANSWER 63 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-15-4 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-4-(1-methylethyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C32 H34 F N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

| PATENT NO. | KIND DATE | APPLICATION NO. | DATE |
|----------------------|---------------------|---------------------|-------------------|
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| WO 2004074288 | A1 20040902 | WO 2004-EP1289 | 20040212 |
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| RW: BW, GH, | GM, KE, LS, MW, MZ, | SD, SL, SZ, TZ, UG, | , ZM, ZW, AT, BE, |
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| US 2004192708 | A1 20040930 | US 2004-776697 | 20040211 |
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| EP 1599477 | A1 20051130 | EP 2004-710346 | 20040212 |
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| PRIORITY APPLN. INFO | .: | US 2003-448562P | 20030219 |

US 2003-448652P 20030219 US 2004-536561P 20040115 WO 2004-EP1289 20040212

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS 2 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 64 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN L20

RN

748148-13-2 REGISTRY Entered STN: 20 Sep 2004 ED

Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-CN tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-4-iodo- (9CI) (CA INDEX

FS 3D CONCORD

C29 H27 F I N5 O4 S MF

SR

CA, CAPLUS, USPATFULL LC STN Files:

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

| PATENT | NO. | | KI | ND : | DATE | | | A. | PPLI | CATI | ои ис | Э. | DATE | | | |
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GQ, GW, ML, MR, NE, SN, TD, TG

US 2004192708 A1 20040930 US 2004-776697 20040211 CA 2004-2514472 20040212 CA 2514472 AA 20040902 EP 2004-710346 EP 1599477 **A**1 20051130 20040212

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IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRIORITY APPLN. INFO.: US 2003-448562P 20030219

> US 2003-448652P 20030219 US 2004-536561P 20040115 WO 2004-EP1289 20040212

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 2 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 65 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN L20

748148-11-0 REGISTRY RN

Entered STN: 20 Sep 2004 ED

Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-4-chloro- (9CI) (CA INDEX NAME)

FS 3D CONCORD

C29 H27 Cl F N5 O4 S MF

SR

STN Files: CA, CAPLUS, USPATFULL LC

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

Preparation of sulfonamide substituted xanthine TITLE:

derivatives as PEPCK inhibitors

Foley, Louise Helen; Huby, Nicholas John Silvester; INVENTOR (S):

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

PCT Int. Appl., 124 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

APPLICATION NO. DATE

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      WO 2004074288
                           A1
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                                                    WO 2004-EP1289
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PRIORITY APPLN. INFO.:
                                                    US 2003-448562P 20030219
US 2003-448652P 20030219
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                                                                          20040212
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REFERENCE COUNT:
                                      THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
                                      RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L20
      ANSWER 66 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
      748148-09-6 REGISTRY
RN
      Entered STN: 20 Sep 2004
ED
      Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-
CN
      tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-4-nitro- (9CI) (CA
      INDEX NAME)
FS
      3D CONCORD
      C29 H27 F N6 O6 S
MF
SR
      STN Files: CA, CAPLUS, USPATFULL
LC
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KIND DATE

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

PATENT NO.

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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PATENT NO.
                                       KIND DATE
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         _____
                                                                              _____
                                                                                                              -----
        WO 2004074288
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                                                                                                             20040212
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RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 67 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

2

RN 748148-06-3 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, 4-bromo-N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

REFERENCE COUNT:

MF C29 H27 Br F N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

Preparation of sulfonamide substituted xanthine TITLE:

derivatives as PEPCK inhibitors

Foley, Louise Helen; Huby, Nicholas John Silvester; INVENTOR(S):

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

CODEN: PIXXD2

F. Hoffmann-La Roche A.-G., Switz. PATENT ASSIGNEE(S):

SOURCE:

PCT Int. Appl., 124 pp.

DOCUMENT TYPE:

Patent.

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| | PA. | rent 1 | NO. | | KI | ND : | DATE | | | | | | | ο. | DATE | | | |
|------|------|--------|----------------|-----|-----|------|------|------|-----|-----|------|-------|------|-----|-------|-------|-----|------|
| | | | - · | | | | | | | - | | | | | | | | |
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| | | | GE, | GH, | GM, | HR, | HU, | ID, | IL, | IN, | IS, | JP, | KE, | KG, | ΚP, | KR, | ΚZ, | LC, |
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REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L20 ANSWER 68 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN RN 748148-04-1 REGISTRY ED Entered STN: 20 Sep 2004

- Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-3-methyl- (9CI) (CA INDEX NAME)
- 3D CONCORD FS
- C30 H30 F N5 O4 S MF
- SR
- STN Files: CA, CAPLUS, USPATFULL LC

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PA | TENT | NO. | | KI | ND | DATE | | | A | PPLI | CATI | ON NO | o. : | DATE | | | |
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| WO | 2004 | 0742 | 88 | A: | 1 | 2004 | 0902 | | W | 200 | 04-E | P128 | 9 | 2004 | 0212 | | |
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| | | | | | | | | | U | S 20 | 04-5 | 3656 | 1P | 2004 | 0115 | | |
| | | | | | | | | | | | | | _ | 2004 | | | |
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| | | | | | | R. | ECOR: | D. A. | rr c | ITAT | IONS | AVA | ILAB | LE I | N TH | E RE | FORMAT |

L20 ANSWER 69 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN RN 748148-02-9 REGISTRY

ED Entered STN: 20 Sep 2004 CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-3-nitro- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C29 H27 F N6 O6 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

| PA' | TENT 1 | NO. | | KI | ND 1 | DATE | | | A | PPLI | CATI | ои ис | ο. | DATE | | | |
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| WO | 2004 | 0742 | 88 | A | 1 : | 2004 | 0902 | | W | 20 | 04-E | P128 | 9 | 2004 | 0212 | | |
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| PRIORIT | Y APP | | | | · | • | | | | | | | | 2003 | | | |

US 2003-448652P 20030219 US 2004-536561P 20040115 WO 2004-EP1289 20040212

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 70 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748148-00-7 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-3-(trifluoromethyl)-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C30 H27 F4 N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

| PA? | CENT 1 | NO. | | KII | ND | DATE | | | A. | PPLI | CATI | ON NO | Э. | DATE | | | |
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PRIORITY APPLN. INFO.: US 2003-448562P 20030219

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> WO 2004-EP1289 20040212

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 2 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 71 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

748147-98-0 REGISTRY RN

Entered STN: 20 Sep 2004 ED

Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-CN tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-3-chloro- (9CI) (CA INDEX NAME)

3D CONCORD FS

C29 H27 Cl F N5 O4 S MF

SR

STN Files: CA, CAPLUS, USPATFULL LC

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

141:225208 CA ACCESSION NUMBER:

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

Foley, Louise Helen; Huby, Nicholas John Silvester; INVENTOR(S):

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

PCT Int. Appl., 124 pp. SOURCE:

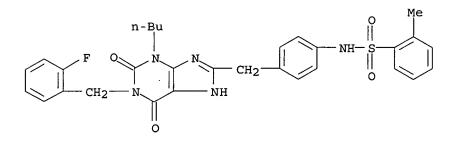
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DOCUMENT TYPE: Patent LANGUAGE: English

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US 2003-448652P 20030219
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      ANSWER 72 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
L20
      748147-96-8 REGISTRY
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      Entered STN: 20 Sep 2004
ED
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      tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2-methyl- (9CI) (CA
      INDEX NAME)
FS
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MF
      C30 H30 F N5 O4 S
SR
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CA, CAPLUS, USPATFULL

KIND DATE

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

LC

STN Files:

PATENT NO.

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

CODEN: PIXXD2

PCT Int. Appl., 124 pp.

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 73 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748147-94-6 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2-chloro-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C29 H27 Cl F N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
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        EP 1599477
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REFERENCE COUNT:
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L20 ANSWER 74 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748147-92-4 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2-(trifluoromethyl)-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C30 H27 F4 N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND DATE | APPLICATION NO. DATE |
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| WO 2004074288 | A1 20040902 | WO 2004-EP1289 20040212 |
| | | AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, |
| | | DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, |
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| LK, LR, | LS, LT, LU, LV, | MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI |
| RW: BW, GH, | GM, KE, LS, MW, | MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, |
| | | EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, |
| MC, NL, | PT, RO, SE, SI, | SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, |
| | ML, MR, NE, SN, | |
| | | US 2004-776697 20040211 |
| CA 2514472 | AA 20040902 | CA 2004-2514472 20040212 |
| EP 1599477 | A1 20051130 | EP 2004-710346 20040212 |
| | | FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, |
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| PRIORITY APPLN. INFO | .: | US 2003-448562P 20030219 |
| | | US 2003-448652P 20030219 |
| | | US 2004-536561P 20040115 |
| | | WO 2004-EP1289 20040212 |
| REFERENCE COUNT: | 2 THERE | ARE 2 CITED REFERENCES AVAILABLE FOR THIS |
| | RECOR | D. ALL CITATIONS AVAILABLE IN THE RE FORMAT |

L20 ANSWER 75 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN RN 748147-90-2 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2-fluoro-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C29 H27 F2 N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

| PATENT NO. | KIND DATE | APPLICATION NO. DATE |
|---------------|-----------------|---|
| | | |
| WO 2004074288 | A1 20040902 | WO 2004-EP1289 20040212 |
| W: AE, AG, | AL, AM, AT, AU, | AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, |
| CN, CO, | CR, CU, CZ, DE, | DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, |
| GE, GH, | GM, HR, HU, ID, | IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, |
| LK, LR, | LS, LT, LU, LV, | MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI |
| RW: BW, GH, | GM, KE, LS, MW, | MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, |
| BG, CH, | CY, CZ, DE, DK, | EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, |
| MC, NL, | PT, RO, SE, SI, | SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, |
| GQ, GW, | ML, MR, NE, SN, | TD, TG |
| US 2004192708 | A1 20040930 | US 2004-776697 20040211 |
| CA 2514472 | AA 20040902 | CA 2004-2514472 20040212 |
| EP 1599477 | A1 20051130 | EP 2004-710346 20040212 |
| R: AT, BE, | CH, DE, DK, ES, | FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, |
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PRIORITY APPLN. INFO.:

US 2003-448562P 20030219 US 2003-448652P 20030219 US 2004-536561P 20040115 WO 2004-EP1289 20040212

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 76 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748147-88-8 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C29 H28 F N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

| PATI | ENT 1 | . OI | | KI | ND | DATE | | | A. | PPLI | CATI | ои ис | o. : | DATE | | | |
|------|------------------|-------------------------|-----|-----|-------|------|------|-----|-----|------|----------|-------|-------|----------|------|-----|-----|
| WO 2 | 20040 | - : 07428 | 88 | A: | 1 | 2004 | 0902 | | W | 20 | 04-E | P128 | 9 | 2004 | 0212 | | |
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US 2004192708 A1 20040930 US 2004-776697 20040211 CA 2514472 AA 20040902 CA 2004-2514472 20040212 EP 1599477 A1 20051130 EP 2004-710346 20040212

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRIORITY APPLN. INFO.: US 2003-448562P 20030219

US 2003-448652P 20030219 US 2004-536561P 20040115

WO 2004-EP1289 20040212

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 77 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748147-86-6 REGISTRY

ED Entered STN: 20 Sep 2004

CN Ethenesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-2-phenyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C31 H30 F N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ----------____ A1 20040902 WO 2004-EP1289 20040212 WO 2004074288 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, CN, CO, CR, CO, CZ, DE, DR, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG A1 20040930 US 2004192708 US 2004-776697 20040211 20040902 CA 2004-2514472 20040212 CA 2514472 AA EP 1599477 A1 20051130 EP 2004-710346 20040212 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK PRIORITY APPLN. INFO.: US 2003-448562P 20030219 US 2003-448652P 20030219 US 2004-536561P 20040115 WO 2004-EP1289 20040212 REFERENCE COUNT: THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L20 ANSWER 78 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN 748147-84-4 REGISTRY RN Entered STN: 20 Sep 2004 ED

Benzenemethanesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-CN 2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)

3D CONCORD FS

MF C30 H30 F N5 O4 S

SR

STN Files: CA, CAPLUS, USPATFULL T.C

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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            GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
        GQ, GW, ML, MR, NE, SN, TD, TG
                                         US 2004-776697
                                                          20040211
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    US 2004192708
                    . A1
                                         CA 2004-2514472 20040212
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                      AA
                                         EP 2004-710346
                                                          20040212
    EP 1599477
                     A1
                          20051130
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                         US 2003-448562P 20030219
PRIORITY APPLN. INFO.:
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                                         WO 2004-EP1289
                                                          20040212
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REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 79 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

748147-82-2 REGISTRY RN

Entered STN: 20 Sep 2004 ED

Ethanesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7-CN tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C25 H28 F N5 O4 S

SR

STN Files: CA, CAPLUS, USPATFULL LC

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted'xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2004074288 A1 20040902 WO 2004-EP1289 20040212

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2004192708 A1 20040930 US 2004-776697 20040211
                                                                                            APPLICATION NO. DATE
           PATENT NO.
                                             KIND DATE
                                                                                           US 2004-776697
           US 2004192708 A1 20040930
CA 2514472 AA 20040902
EP 1599477 A1 20051130
                                                                                                                                       20040211
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK PRIORITY APPLN. INFO.:

US 2003-448562P 20030219
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US 2003-448652P 20030219
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                                                                      THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
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                                                                      RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
           ANSWER 80 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
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L20

748147-80-0 REGISTRY Entered STN: 20 Sep 2004

2-Propanesulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-2,3,6,7tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

C26 H30 F N5 O4 S MF

SR

STN Files: CA, CAPLUS, USPATFULL LC

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PA | TENT : | NO. | | KII | ND. | DATE | | | A. | PPLI | CATI | ON NO | ο. | DATE | | | |
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| WC | 2004 | 0742 | 88 | A: | 1 | 2004 | 0902 | | W | 20 | 04-E | P128 | 9 | 20040 | 0212 | | |
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| | | | | | | | | | | | | | | ΚP, | | | |
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| US | 2004 | 1927 | 08 | A: | 1 | 2004 | 0930 | | U | S 20 | 04-7 | 7669 | 7 | 2004 | 0211 | | |
| CA | 2514 | 472 | | A | A | 2004 | 0902 | | C. | A 20 | 04-2 | 5144 | 72 | 2004 | 0212 | | |
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L20 ANSWER 81 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN RN 748147-77-5 REGISTRY

Entered STN: 20 Sep 2004 ED

1H-Pyrazole-4-sulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-CN2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-5-chloro-1,3dimethyl- (9CI) (CA INDEX NAME)

3D CONCORD FS

C28 H29 Cl F N7 O4 S MF

SR

CA, CAPLUS, USPATFULL LCSTN Files:

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

Preparation of sulfonamide substituted xanthine TITLE:

derivatives as PEPCK inhibitors

Foley, Louise Helen; Huby, Nicholas John Silvester; INVENTOR(S):

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

Patent

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

DOCUMENT TYPE:

| PA | PATENT NO. | | | KI | ND | DATE | | | Α | PPLI | CATI | ON NO | ο. | DATE | | | | |
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| WO | WO 2004074288 | | | A1 20040902 | | | | WO 2004-EP1289 20040 | | | | | | | | | | |
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| US | US 2004192708 | | | Α | A1 20040930 | | | | US 2004-776697 20040211 | | | | | | | | | |
| CA | CA 2514472 | | AA 20040902 | | | | CA 2004-2514472 20040212 | | | | | | | | | | | |
| EP | EP 1599477 | | A1 20051130 | | | E | EP 2004-710346 20040212 | | | | | | | | | | | |
| | R: | AT. | BE. | CH. | DE. | DK. | ES. | FR. | GB. | GR. | TT. | T.T. | TIT | NT. | SE | MC | PΤ | |

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK US 2003-448562P 20030219

PRIORITY APPLN. INFO.:

US 2003-448652P 20030219

US 2004-536561P 20040115

WO 2004-EP1289 20040212

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 82 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN L20

748147-59-3 REGISTRY RN

Entered STN: 20 Sep 2004 ED

1H-Pyrazole-4-sulfonamide, N-[6-[[3-butyl-1-[(2-fluorophenyl)methyl]-CN 2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]-3-pyridinyl]-5-chloro-1,3-dimethyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

C27 H28 C1 F N8 O4 S MF

SR

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR (S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp.

DOCUMENT TYPE:

CODEN: PIXXD2 Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE _____ _ _ _ _ ----------WO 2004074288 A1 20040902 WO 2004-EP1289 20040212

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,

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              GQ, GW, ML, MR, NE, SN, TD, TG
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                        A1
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                                              CA 2004-2514472 20040212
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                        A1
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PRIORITY APPLN. INFO .:
                                              US 2003-448562P 20030219
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                                              WO 2004-EP1289
                                                                 20040212
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REFERENCE COUNT:
                                 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
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L20 ANSWER 83 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748147-57-1 REGISTRY

ED Entered STN: 20 Sep 2004

CN Methanesulfonamide, N-[4-[[3-butyl-2,3,6,7-tetrahydro-2,6-dioxo-1-(phenylmethyl)-1H-purin-8-yl]methyl]phenyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C24 H27 N5 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

APPLICATION NO. DATE KIND DATE PATENT NO. ----------WO 2004-EP1289 20040212 WO 2004074288 A1 20040902 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW. GH. GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2004-776697 20040211 A1 20040930 US 2004192708 AA 20040902 CA 2004-2514472 20040212 CA 2514472 A1 EP 2004-710346 20040212 20051130 EP 1599477 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK PRIORITY APPLN. INFO.: US 2003-448562P 20030219 US 2003-448652P 20030219 US 2004-536561P 20040115 WO 2004-EP1289 20040212

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 84 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 748147-50-4 REGISTRY

ED Entered STN: 20 Sep 2004

CN Benzenesulfonamide, N-[4-[[3-butyl-2,3,6,7-tetrahydro-2,6-dioxo-1-(phenylmethyl)-1H-purin-8-yl]methyl]phenyl]-4-methyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C30 H31 N5 O4 S

SR CF

LC STN Files: CA, CAPLUS, USPATFULL

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

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Preparation of sulfonamide substituted xanthine
TITLE:
                              derivatives as PEPCK inhibitors
                              Foley, Louise Helen; Huby, Nicholas John Silvester;
INVENTOR(S):
                              Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,
                              Pete William
                              F. Hoffmann-La Roche A.-G., Switz.
PATENT ASSIGNEE(S):
                              PCT Int. Appl., 124 pp.
SOURCE:
                              CODEN: PIXXD2
DOCUMENT TYPE:
                              Patent
LANGUAGE:
                              English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                         KIND DATE
                                                   APPLICATION NO. DATE
      PATENT NO.
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      ______
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                                                    WO 2004-EP1289
                                                                          20040212
      WO 2004074288
                           A1 20040902
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                                                    US 2004-776697
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                                                     EP 2004-710346 20040212
      EP 1599477
                            A1
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                                                     US 2003-448562P 20030219
PRIORITY APPLN. INFO.:
                                                     US 2003-448652P 20030219
                                                     US 2004-536561P 20040115
                                                     WO 2004-EP1289
                                                                          20040212
                                      THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                                      RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
      ANSWER 85 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
L20
      748147-41-3 REGISTRY
RN
      Entered STN: 20 Sep 2004
ED
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      mono(trifluoroacetate) (9CI) (CA INDEX NAME)
      C27 H28 F N7 O4 S . C2 H F3 O2
ΜF
SR
      STN Files: CA, CAPLUS, USPATFULL
LC
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CM

1

CRN 748147-40-2

CMF C27 H28 F N7 O4 S

CM

CRN 76-05-1 C2 H F3 O2

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

| PATENT NO. | | | KIND DATE | | | | | APPLICATION NO. DATE | | | | | | | | | |
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| WO 2004074288 | | | A1 ·20040902 | | | | W | 0212 | | | | | | | | | |
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IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRIORITY APPLN. INFO.:

US 2003-448562P 20030219 US 2003-448652P 20030219

US 2004-536561P 20040115

20040212

WO 2004-EP1289

REFERENCE COUNT: THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L20 ANSWER 86 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
- RN748147-40-2 REGISTRY
- ED Entered STN: 20 Sep 2004
- 1H-Imidazole-4-sulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-CN 2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-1-methyl- (9CI) (CA INDEX NAME)
- FS 3D CONCORD
- MF C27 H28 F N7 O4 S
- CI COM
- SR CA

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
- ANSWER 87 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN L20
- 748147-38-8 REGISTRY RN
- ED Entered STN: 20 Sep 2004
- 1H-Imidazole-4-sulfonamide, N-[4-[[3-butyl-1-[(2-fluorophenyl)methyl]-CN 2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl]methyl]phenyl]-1-methyl-, monohydrochloride (9CI) (CA INDEX NAME)
- MF C27 H28 F N7 O4 S . Cl H
- SR CA
- LCSTN Files: CA, CAPLUS, USPATFULL
- CRN (748147 - 40 - 2)

● HCl

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

| PATENT NO. | KIND DATE | APPLICATION NO. DATE | DATE | | | | | |
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| WO 2004074288 | A1 20040902 | WO 2004-EP1289 2004 | 0212 | | | | | |
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| GQ, GW, | ML, MR, NE, SN, TD, | TG | | | | | | |
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| | | WO 2004-EP1289 2004 | 0212 | | | | | |
| REFERENCE COUNT: | 2 THERE ARE | 2 CITED REFERENCES AVAI | LABLE FOR THIS | | | | | |
| | RECORD. A | LL CITATIONS AVAILABLE I | N THE RE FORMAT | | | | | |

L20 ANSWER 88 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN RN 748147-27-5 REGISTRY

ED Entered STN: 20 Sep 2004

CN 1H-Pyrazole-4-sulfonamide, 1,3-dimethyl-N-[4-[(2,3,6,7-tetrahydro-1,3-dimethyl-2,6-dioxo-1H-purin-8-yl)methyl]phenyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C19 H21 N7 O4 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

| PA | KIND DATE | | | | A. | PPLI | CATIO | ON NO | ٥. | DATE | | | | | | | | | |
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| US | US 2004192708 | | | | | A1 20040930 | | | | | US 2004-776697 20040211 | | | | | | | | |
| CA | 2514 | 472 | | AA 20040902 | | | | | CA 2004-2514472 20040212 | | | | | | | | | | |
| EP | EP 1599477 | | | | | A1 20051130 | | | | | EP 2004-710346 20040212 | | | | | | | | |
| | R: | AT, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | IT, | LI, | LU, | NL, | SE, | MC, | PT, | | |
| | | IE, | SI, | LT, | LV, | FI, | RO, | MK, | CY, | AL, | TR, | BG, | CZ, | EE, | HU, | SK | | | |
| PRIORITY APPLN. INFO.: | | | | | | | | | | CY, AL, TR, BG, CZ, EE, HU, SK US 2003-448562P 20030219 | | | | | | | | | |

US 2003-448652P 20030219 US 2004-536561P 20040115 20040212 WO 2004-EP1289

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 89 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN L20

2

RN

748147-25-3 REGISTRY Entered STN: 20 Sep 2004 ED

1H-Pyrazole-4-sulfonamide, 5-chloro-1,3-dimethyl-N-[4-[(2,3,6,7-tetrahydro-CN 1.3-dimethyl-2,6-dioxo-1H-purin-8-yl)methyl]phenyl]- (9CI) (CA INDEX

FS 3D CONCORD

C19 H20 Cl N7 O4 S MF

SR

CA, CAPLUS, USPATFULL LC STN Files:

$$\begin{array}{c|c} & \text{Me} \\ \hline \\ \text{O} \\ \text{N} \\ \text{NH} \\ \end{array} \begin{array}{c} \text{CH}_2 \\ \text{NH} \\ \text{S} \\ \text{O} \\ \text{C1} \\ \text{Me} \\ \end{array}$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

141:225208 CA ACCESSION NUMBER:

Preparation of sulfonamide substituted xanthine TITLE:

derivatives as PEPCK inhibitors

Foley, Louise Helen; Huby, Nicholas John Silvester; INVENTOR(S):

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

F. Hoffmann-La Roche A.-G., Switz. PATENT ASSIGNEE(S):

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PAT | PATENT NO. | | | | ND | DATE | | APPLICATION NO. | | | | | DATE | | | | | | |
|------|---------------|---------|-----|-----|-----|------|------|-----------------|-----|-----|------|------|------|----------|-----|-----|-----|--|--|
| | | | | | | | | | - | | | | | | | | | | |
| WO : | 2004074288 A1 | | | | | 2004 | 0902 | | W | 200 | 04-E | P128 | 9 | 20040212 | | | | | |
| | W: | ΑE, | AG, | AL, | AM, | ΑT, | AU, | ΑZ, | BA, | BB, | BG, | BR, | BW, | BY, | ΒZ, | CA, | CH, | | |
| | | CN, | CO, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | EG, | ES, | FI, | GB, | GD, | | |
| | | GE, | GH, | GM, | HR, | HU, | ID, | IL, | IN, | IS, | JP, | ΚE, | KG, | KΡ, | KR, | KZ, | LC, | | |
| | | LK, | LR, | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | ΜZ, | NA, | NI | | |

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG 20040930 US 2004-776697 20040211 US 2004192708 A1 CA 2004-2514472 20040212 20040902 CA 2514472 AA EP 2004-710346 20040212 20051130 EP 1599477 A1 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK US 2003-448562P 20030219 PRIORITY APPLN. INFO.: US 2003-448652P 20030219 US 2004-536561P 20040115 WO 2004-EP1289 20040212

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 90 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 731845-71-9 REGISTRY

ED Entered STN: 24 Aug 2004

CN 2-Propenamide, 3-[4-[(2,3,6,7-tetrahydro-1,3-dimethyl-2,6-dioxo-1H-purin-8-yl)methyl]phenyl]-N-[(tetrahydro-2H-pyran-2-yl)oxy]-, (2E)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C22 H25 N5 O5

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:157117 CA

TITLE: Preparation of N-hydroxamide carboxylic acid

derivatives as histone deacetylase (hdac) inhibitors Urano, Yasuharu; Satoh, Shigeki; Ishibashi, Naoki;

INVENTOR(S): Urano, Yasuharu; Satoh, Shigeki; Ishibashi, Naoki;

Kamijo, Kazunori

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 242 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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APPLICATION NO. DATE
     PATENT NO.
                        KIND DATE
                        ----
                               _____
                                                -----
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                              20040729
                                               WO 2004-JP157
                                                                   20040113
     WO 2004063169
                        A1
         W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AU, AZ, AZ, BA, BB,
              BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG,
              ES, ES, FI, FI, GB, GD, GE, GE, GH, GH, GM, HR, HR, HU, HU,
              ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW,
              MX, MX, MZ
                                                US 2004-754541
                                                                    20040112
     US 2004229889
                       A1
                               20041118
                                                CA 2004-2513436 20040113
                         AA
                               20040729
     CA 2513436
                               20051019
                                                EP 2004-701698
                                                                    20040113
     EP 1585735
                         A1
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                                AU 2003-900116
PRIORITY APPLN. INFO.:
                                                                    20030113
                                                AU 2003-905406
                                                                    20031006
                                                WO 2004-JP157
                                                                    20040113
```

L20 ANSWER 91 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 731845-70-8 REGISTRY

ED Entered STN: 24 Aug 2004

CN 2-Propenoic acid, 3-[4-[(2,3,6,7-tetrahydro-1,3-dimethyl-2,6-dioxo-1H-purin-8-yl)methyl]phenyl]-, (2E)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C17 H16 N4 O4

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Double bond geometry as shown.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

INVENTOR (S):

ACCESSION NUMBER:

141:157117 CA

TITLE:

Preparation of N-hydroxamide carboxylic acid

derivatives as histone deacetylase (hdac) inhibitors Urano, Yasuharu; Satoh, Shigeki; Ishibashi, Naoki;

Kamijo, Kazunori

PATENT ASSIGNEE(S):

Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE:

PCT Int. Appl., 242 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ______ ----------WO 2004063169 **A**1 20040729 WO 2004-JP157 20040113 W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AU, AZ, AZ, BA, BB, BG, BG, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GH, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ US 2004229889 **A**1 20041118 US 2004-754541 20040112 CA 2004-2513436 20040113 CA 2513436 AA20040729 EP 1585735 A1 20051019 EP 2004-701698 20040113 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK PRIORITY APPLN. INFO.: AU 2003-900116 20030113 AU 2003-905406 20031006 WO 2004-JP157 20040113

L20 ANSWER 92 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 731843-76-8 REGISTRY

ED Entered STN: 24 Aug 2004

CN 2-Propenamide, N-hydroxy-3-[4-[(2,3,6,7-tetrahydro-1,3-dimethyl-2,6-dioxo-1H-purin-8-yl)methyl]phenyl]-, monohydrochloride, (2E)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C17 H17 N5 O4 . Cl H

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CRN (773849-23-3)

Double bond geometry as shown.

● HCl

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

Berch PCT/US04/04627

ACCESSION NUMBER:

141:157117 CA

TITLE:

Preparation of N-hydroxamide carboxylic acid

derivatives as histone deacetylase (hdac) inhibitors

INVENTOR(S): Urano, Yasuharu; Satoh, Shigeki; Ishibashi, Naoki;

Kamijo, Kazunori

PATENT ASSIGNEE(S):

Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE:

PCT Int. Appl., 242 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND DATE | APPLICATION NO. | DATE |
|----------------------|---------------------|---------------------|-------------------|
| | - | | |
| WO 2004063169 | A1 20040729 | WO 2004-JP157 | 20040113 |
| W: AE, AE, | AG, AL, AL, AM, AM, | AM, AT, AT, AU, AU, | , AZ, AZ, BA, BB, |
| BG, BG, | BR, BR, BW, BY, BY, | BZ, BZ, CA, CH, CN, | , CN, CO, CO, CR, |
| CR, CU, | CU, CZ, CZ, DE, DE, | DK, DK, DM, DZ, EC, | , EC, EE, EE, EG, |
| ES, ES, | FI, FI, GB, GD, GE, | GE, GH, GH, GH, GM | , HR, HR, HU, HU, |
| ID, IL, | IN, IS, JP, JP, KE, | KE, KG, KG, KP, KP, | , KP, KR, KR, KZ, |
| KZ, LC, | LK, LR, LS, LS, LT, | LU, LV, MA, MD, MD, | , MG, MK, MN, MW, |
| MX, MX, | MZ | • | |
| US 2004229889 | A1 20041118 | US 2004-754541 | 20040112 |
| CA 2513436 | AA 20040729 | CA 2004-2513436 | 20040113 |
| EP 1585735 | A1 20051019 | EP 2004-701698 | 20040113 |
| R: AT, BE, | CH, DE, DK, ES, FR, | GB, GR, IT, LI, LU, | , NL, SE, MC, PT, |
| IE, SI, | LT, LV, FI, RO, MK, | CY, AL, TR, BG, CZ, | , EE, HU, SK |
| PRIORITY APPLN. INFO | .: | AU 2003-900116 | 20030113 |
| | | AU 2003-905406 | 20031006 |
| | | WO 2004-JP157 | 20040113 |

L20 ANSWER 93 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 672321-33-4 REGISTRY

ED Entered STN: 07 Apr 2004

CN 1H-Purine-2,6-dione, 8-[(3,4-dihydro-2(1H)-isoquinolinyl)methyl]-3,7-dihydro-1,3-dimethyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C17 H19 N5 O2

SR Chemical Library

Supplier: PHARMEKS Ltd.

LC STN Files: CHEMCATS

$$\begin{array}{c|c} Me \\ \hline \\ N \\ NH \\ \hline \\ NH \\ \end{array}$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 94 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 655239-12-6 REGISTRY

ED Entered STN: 27 Feb 2004

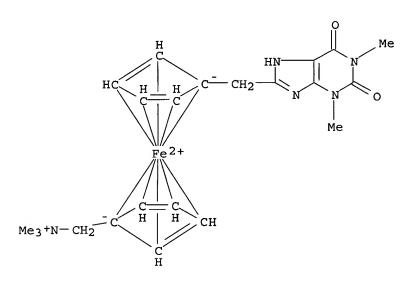
CN Methanaminium, N,N,N-trimethyl-1-[1'-[(2,3,6,7-tetrahydro-1,3-dimethyl-2,6-dioxo-1H-purin-8-yl)methyl]ferrocenyl]- (9CI) (CA INDEX NAME)

MF C22 H28 Fe N5 O2

CI CCS

SR CA

LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

140:159975 CA

TITLE:

Synthesis, characterization, and evaluation of ferrocene-theophylline conjugates for use in

electrochemical enzyme immunoassay

AUTHOR(S):

Forrow, Nigel J.; Foulds, Nicola C.; Frew, Jane E.;

Law, John T.

CORPORATE SOURCE:

MediSense (UK) Ltd., Abbott Laboratories, Abingdon,

Oxon, OX14 1TR, UK

SOURCE:

Bioconjugate Chemistry (2004), 15(1), 137-144

CODEN: BCCHES; ISSN: 1043-1802

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

REFERENCE COUNT:

34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 95 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 655239-11-5 REGISTRY

ED Entered STN: 27 Feb 2004

CN Methanaminium, N,N,N-trimethyl-1-[3-[(2,3,6,7-tetrahydro-1,3-dimethyl-2,6-dioxo-1H-purin-8-yl)methyl]ferrocenyl]- (9CI) (CA INDEX NAME)

MF C22 H28 Fe N5 O2

CI CCS

SR CA

CA, CAPLUS STN Files: LC

$$\begin{array}{c|c} & H & \\ & C & \\ & H &$$

- 1 REFERENCES IN FILE CA (1907 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

140:159975 CA

TITLE:

Synthesis, characterization, and evaluation of

ferrocene-theophylline conjugates for use in

electrochemical enzyme immunoassay Forrow, Nigel J.; Foulds, Nicola C.; Frew, Jane E.;

AUTHOR (S): Law, John T.

MediSense (UK) Ltd., Abbott Laboratories, Abingdon,

CORPORATE SOURCE:

Oxon, OX14 1TR, UK

Bioconjugate Chemistry (2004), 15(1), 137-144 CODEN: BCCHES; ISSN: 1043-1802

PUBLISHER:

SOURCE:

American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

REFERENCE COUNT:

THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS 34 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 96 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN L20

655239-10-4 REGISTRY RN

Entered STN: 27 Feb 2004

Methanaminium, N,N,N-trimethyl-1-[2-[(2,3,6,7-tetrahydro-1,3-dimethyl-2,6-CN dioxo-1H-purin-8-yl)methyl]ferrocenyl]- (9CI) (CA INDEX NAME)

C22 H28 Fe N5 O2 MF

CI CCS

SR CA

LCSTN Files: CA, CAPLUS

Me NH
$$CH_2$$
 CH_2 CH_2 CH_3 CH_4 CH_4 CH_5 CH_6 CH_7 CH_8 C

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

140:159975 CA ACCESSION NUMBER:

Synthesis, characterization, and evaluation of TITLE:

ferrocene-theophylline conjugates for use in

electrochemical enzyme immunoassay

Forrow, Nigel J.; Foulds, Nicola C.; Frew, Jane E.; AUTHOR (S):

Law, John T.

MediSense (UK) Ltd., Abbott Laboratories, Abingdon, CORPORATE SOURCE:

Oxon, OX14 1TR, UK

Bioconjugate Chemistry (2004), 15(1), 137-144 SOURCE:

CODEN: BCCHES; ISSN: 1043-1802

American Chemical Society PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 97 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN

655239-06-8 REGISTRY Entered STN: 27 Feb 2004 ED

Ferrocene, 1-[(dimethylamino)methyl]-1'-[(2,3,6,7-tetrahydro-1,3-dimethyl-2,6-dioxo-1H-purin-8-yl)methyl]- (9CI) (CA INDEX NAME)

MF C21 H25 Fe N5 O2

CI CCS SR CA

LCSTN Files: CA, CAPLUS

$$\begin{array}{c|c} H & C & H & Me \\ \hline H & C & CH_2 & Me \\ \hline \\ Me_2N-CH_2 & H & H & CH \\ \hline \\ Me_2N-CH_2 & H & CH \\ \hline \\ H & CH \\ \hline \\ H & CH & CH \\ \hline \\ H & CH \\ \hline$$

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

140:159975 CA ACCESSION NUMBER:

Synthesis, characterization, and evaluation of TITLE:

ferrocene-theophylline conjugates for use in

electrochemical enzyme immunoassay

Forrow, Nigel J.; Foulds, Nicola C.; Frew, Jane E.; AUTHOR (S):

Law, John T.

MediSense (UK) Ltd., Abbott Laboratories, Abingdon, CORPORATE SOURCE:

Oxon, OX14 1TR, UK

Bioconjugate Chemistry (2004), 15(1), 137-144 SOURCE:

CODEN: BCCHES; ISSN: 1043-1802

American Chemical Society PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: English

THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 34

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 98 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN

655239-02-4 REGISTRY Entered STN: 27 Feb 2004 ED

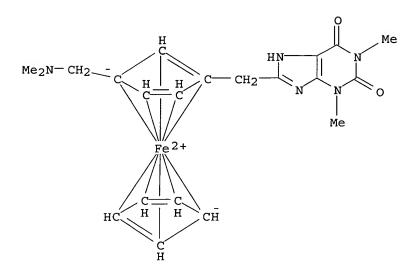
Ferrocene, 1-[(dimethylamino)methyl]-3-[(2,3,6,7-tetrahydro-1,3-dimethyl-

2,6-dioxo-1H-purin-8-yl)methyl]- (9CI) (CA INDEX NAME)

C21 H25 Fe N5 O2 MF

CI CCS SR

CA, CAPLUS LC STN Files:



1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 140:159975 CA

Synthesis, characterization, and evaluation of TITLE:

ferrocene-theophylline conjugates for use in

electrochemical enzyme immunoassay

AUTHOR (S): Forrow, Nigel J.; Foulds, Nicola C.; Frew, Jane E.;

Law, John T.

MediSense (UK) Ltd., Abbott Laboratories, Abingdon, CORPORATE SOURCE:

Oxon, OX14 1TR, UK

Bioconjugate Chemistry (2004), 15(1), 137-144 SOURCE:

CODEN: BCCHES; ISSN: 1043-1802

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English REFERENCE COUNT: 34

THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 99 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN L20

RN

655238-97-4 REGISTRY Entered STN: 27 Feb 2004 ED

Ferrocene, 1-[(dimethylamino)methyl]-2-[(2,3,6,7-tetrahydro-1,3-dimethyl-CN

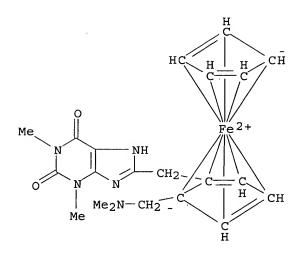
2,6-dioxo-1H-purin-8-yl)methyl]- (9CI) (CA INDEX NAME)

MF C21 H25 Fe N5 O2

CI CCS

SR CA

STN Files: CA, CAPLUS LC



1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 140:159975 CA

TITLE: Synthesis, characterization, and evaluation of

ferrocene-theophylline conjugates for use in

electrochemical enzyme immunoassay

AUTHOR(S): Forrow, Nigel J.; Foulds, Nicola C.; Frew, Jane E.;

Law, John T.

CORPORATE SOURCE: MediSense (UK) Ltd., Abbott Laboratories, Abingdon,

Oxon, OX14 1TR, UK

SOURCE: Bioconjugate Chemistry (2004), 15(1), 137-144

CODEN: BCCHES; ISSN: 1043-1802

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 100 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 655238-94-1 REGISTRY

ED Entered STN: 27 Feb 2004

CN Ferrocene, 1-acetyl-1'-[(2,3,6,7-tetrahydro-1,3-dimethyl-2,6-dioxo-1H-

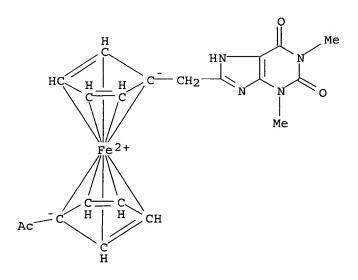
purin-8-yl)methyl] - (9CI) (CA INDEX NAME)

MF C20 H20 Fe N4 O3

CI CCS

SR CA

LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

140:159975 CA

TITLE:

Synthesis, characterization, and evaluation of ferrocene-theophylline conjugates for use in

electrochemical enzyme immunoassay

AUTHOR (S):

Forrow, Nigel J.; Foulds, Nicola C.; Frew, Jane E.;

Law, John T.

CORPORATE SOURCE:

MediSense (UK) Ltd., Abbott Laboratories, Abingdon,

Oxon, OX14 1TR, UK

SOURCE:

Bioconjugate Chemistry (2004), 15(1), 137-144

CODEN: BCCHES; ISSN: 1043-1802

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

REFERENCE COUNT:

34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 101 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 655238-93-0 REGISTRY

Entered STN: 27 Feb 2004 ED

Ferrocene, [8-(2,3,6,7-tetrahydro-1,3-dimethyl-2,6-dioxo-1H-purin-8-CN

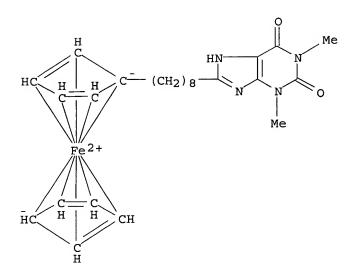
(CA INDEX NAME) yl)octyl]- (9CI)

MF C25 H32 Fe N4 O2

CI CCS

SR CA

LCSTN Files: CA, CAPLUS



1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 140:159975 CA

TITLE: Synthesis, characterization, and evaluation of

ferrocene-theophylline conjugates for use in

electrochemical enzyme immunoassay

AUTHOR(S): Forrow, Nigel J.; Foulds, Nicola C.; Frew, Jane E.;

Law, John T.

CORPORATE SOURCE: MediSense (UK) Ltd., Abbott Laboratories, Abingdon,

Oxon, OX14 1TR, UK

SOURCE: Bioconjugate Chemistry (2004), 15(1), 137-144

CODEN: BCCHES; ISSN: 1043-1802

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 102 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 655238-92-9 REGISTRY

ED Entered STN: 27 Feb 2004

CN Ferrocene, [4-(2,3,6,7-tetrahydro-1,3-dimethyl-2,6-dioxo-1H-purin-8-

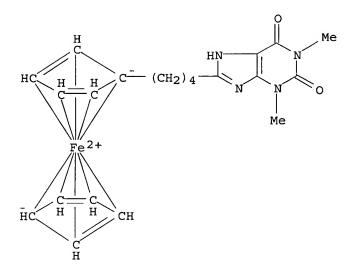
yl)butyl]- (9CI) (CA INDEX NAME)

MF C21 H24 Fe N4 O2

CI CCS

SR CA

LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

140:159975 CA

TITLE:

Synthesis, characterization, and evaluation of ferrocene-theophylline conjugates for use in

electrochemical enzyme immunoassay

AUTHOR (S):

Forrow, Nigel J.; Foulds, Nicola C.; Frew, Jane E.;

Law, John T.

CORPORATE SOURCE:

MediSense (UK) Ltd., Abbott Laboratories, Abingdon,

Oxon, OX14 1TR, UK

SOURCE:

Bioconjugate Chemistry (2004), 15(1), 137-144

CODEN: BCCHES; ISSN: 1043-1802

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

REFERENCE COUNT:

34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 103 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 655238-91-8 REGISTRY

ED Entered STN: 27 Feb 2004

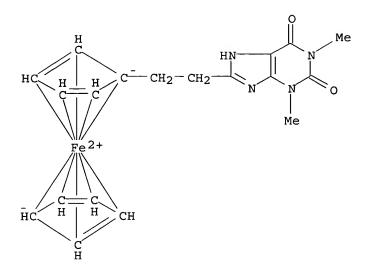
CN Ferrocene, [2-(2,3,6,7-tetrahydro-1,3-dimethyl-2,6-dioxo-1H-purin-8-yl)ethyl]- (9CI) (CA INDEX NAME)

MF C19 H20 Fe N4 O2

CI CCS

SR CA

LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

140:159975 CA ACCESSION NUMBER:

Synthesis, characterization, and evaluation of TITLE:

ferrocene-theophylline conjugates for use in

electrochemical enzyme immunoassay

AUTHOR(S): Forrow, Nigel J.; Foulds, Nicola C.; Frew, Jane E.;

Law, John T.

MediSense (UK) Ltd., Abbott Laboratories, Abingdon, CORPORATE SOURCE:

Oxon, OX14 1TR, UK

Bioconjugate Chemistry (2004), 15(1), 137-144 SOURCE:

CODEN: BCCHES; ISSN: 1043-1802

American Chemical Society PUBLISHER:

DOCUMENT TYPE: Journal English LANGUAGE:

REFERENCE COUNT: THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS 34

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 104 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN

655238-90-7 REGISTRY Entered STN: 27 Feb 2004 ED

Ferrocene, 1-methyl-1'-[(2,3,6,7-tetrahydro-1,3-dimethyl-2,6-dioxo-1H-CN

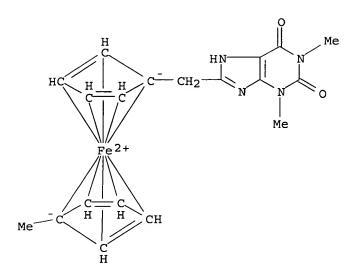
purin-8-yl)methyl]- (9CI) (CA INDEX NAME)

C19 H20 Fe N4 O2 MF

CCS CI

CA SR

STN Files: CA, CAPLUS LC



1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 140:159975 CA

TITLE: Synthesis, characterization, and evaluation of

ferrocene-theophylline conjugates for use in

electrochemical enzyme immunoassay

AUTHOR(S): Forrow, Nigel J.; Foulds, Nicola C.; Frew, Jane E.;

Law, John T.

CORPORATE SOURCE: MediSense (UK) Ltd., Abbott Laboratories, Abingdon,

Oxon, OX14 1TR, UK

SOURCE: Bioconjugate Chemistry (2004), 15(1), 137-144

CODEN: BCCHES; ISSN: 1043-1802

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 105 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 637335-90-1 REGISTRY

ED Entered STN: 14 Jan 2004

CN 1H-Purine-2,6-dione, 3-butyl-1-[(2-fluorophenyl)methyl]-3,7-dihydro-8-[(4-

nitrophenyl) methyl] - (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C23 H22 F N5 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 141:225208 CA

TITLE: Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S): Foley, Louise Helen; Huby, Nicholas John Silvester;

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
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                                           APPLICATION NO. DATE
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EP 2004-710346 20040212
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                      AA 20040902
     CA 2514472
                      A1 20051130
     EP 1599477
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                                            US 2003-448562P 20030219
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REFERENCE COUNT:
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                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
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REFERENCE 2

ACCESSION NUMBER: 140:59656 CA

TITLE: Preparation of amide-substituted xanthine derivatives

as phosphoenolpyruvate carboxykinase inhibitors with gluconeogenesis modulating activity for treating type

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

2 diabetes

INVENTOR(S): Dunten, Pete William; Foley, Louise Helen; Huby,

Nicholas John Silvester; Pietranico-Cole, Sherrie

Lynn; Yun, Weiya

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE: PCT Int. Appl., 191 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO.
                                         KIND DATE
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PRIORITY APPLN. INFO.:
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REFERENCE COUNT:
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L20 ANSWER 106 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 637335-82-1 REGISTRY

ED Entered STN: 14 Jan 2004

CN 1H-Purine-2,6-dione, 8-[(4-aminophenyl)methyl]-3-butyl-1-[(2-fluorophenyl)methyl] 3-7 dibydro (AGI) (GA INDRY NAME)

fluorophenyl)methyl]-3,7-dihydro- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C23 H24 F N5 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND DATE | APPLICATION NO. DATE |
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| WO 2004074288 | A1 20040902 | WO 2004-EP1289 20040212 |
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| | , ML, MR, NE, SN, | |
| US 2004192708 | A1 20040930 | US 2004-776697 20040211 |
| CA 2514472 | AA 20040902 | CA 2004-2514472 20040212 |
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| PRIORITY APPLN. INFO | | US 2003-448562P 20030219 |
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| | | US 2004-536561P 20040115 |
| | | WO 2004-EP1289 20040212 |
| REFERENCE COUNT: | 2 THERE | ARE 2 CITED REFERENCES AVAILABLE FOR THIS |
| | RECOR | D. ALL CITATIONS AVAILABLE IN THE RE FORMAT |

REFERENCE 2

ACCESSION NUMBER:

140:59656 CA

TITLE:

Preparation of amide-substituted xanthine derivatives as phosphoenolpyruvate carboxykinase inhibitors with gluconeogenesis modulating activity for treating type

2 diabetes

INVENTOR(S):

Dunten, Pete William; Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie

Lynn; Yun, Weiya

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 191 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

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LANGUAGE:
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English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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APPLICATION NO. DATE
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                   AA 20031224 CA 2003-2487033 20030605
A1 20050323 EP 2003-735559 20030605
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PRIORITY APPLN. INFO.:
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REFERENCE COUNT:
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THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS 3 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 107 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 637335-70-7 REGISTRY

Entered STN: 14 Jan 2004 ED

1H-Purine-2,6-dione, 8-[(4-aminophenyl)methyl]-3-butyl-3,7-dihydro-1-CN (phenylmethyl) - (9CI) (CA INDEX NAME)

3D CONCORD FS

MF C23 H25 N5 O2

SR CA

STN Files: CA, CAPLUS, USPATFULL LC

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

TITLE:

Preparation of sulfonamide substituted xanthine

derivatives as PEPCK inhibitors

INVENTOR(S):

Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO. | KIND DATE | APPLICATION NO. | DATE | | | | | |
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| WO 2004074288 | A1 20040902 | WO 2004-EP1289 | 20040212 | | | | | |
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| RW: BW, GH, | GM, KE, LS, MW, MS | , SD, SL, SZ, TZ, UG, | ZM, ZW, AT, BE, | | | | | |
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| MC, NL, | PT, RO, SE, SI, SI | , TR, BF, BJ, CF, CG, | CI, CM, GA, GN, | | | | | |
| GQ, GW, | ML, MR, NE, SN, TI | , TG | | | | | | |
| US 2004192708 | A1 20040930 | US 2004-776697 | 20040211 | | | | | |
| CA 2514472 | AA 20040902 | CA 2004-2514472 | 20040212 | | | | | |
| EP 1599477 | A1 20051130 | EP 2004-710346 | 20040212 | | | | | |
| R: AT, BE, | CH, DE, DK, ES, FI | , GB, GR, IT, LI, LU, | NL, SE, MC, PT, | | | | | |
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| PRIORITY APPLN. INFO |). : | US 2003-448562P 20030219 | | | | | | |
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| | | WO 2004-EP1289 | 20040212 | | | | | |

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

REFERENCE 2

ACCESSION NUMBER:

140:59656 CA

TITLE:

Preparation of amide-substituted xanthine derivatives as phosphoenolpyruvate carboxykinase inhibitors with gluconeogenesis modulating activity for treating type

2 diabetes

INVENTOR(S):

Dunten, Pete William; Foley, Louise Helen; Huby, Nicholas John Silvester; Pietranico-Cole, Sherrie

Lynn; Yun, Weiya

PATENT ASSIGNEE(S):

F. Hoffmann-La Roche A.-G., Switz.

SOURCE:

PCT Int. Appl., 191 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| WO 200310645 | 9 A1 | 20031224 | WO 2003-EP5922 | 20030605 |
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               PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
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EP 2003-735559 20030605
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PRIORITY APPLN. INFO .:
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REFERENCE COUNT:
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                                     THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
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THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 108 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 628279-05-0 REGISTRY

ED Entered STN: 19 Dec 2003

CN 1H-Purine-2,6-dione, 8-[(4-aminophenyl)methyl]-3-butyl-3,7-dihydro-1-(2-propenyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C19 H23 N5 O2

SR CA

LC STN Files: CA, CAPLUS, CASREACT

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 140:229 CA

TITLE: Modified 3-alkyl-1,8-dibenzylxanthines as

GTP-competitive inhibitors of phosphoenolpyruvate

carboxykinase

AUTHOR(S): Foley, Louise H.; Wang, Ping; Dunten, Pete; Ramsey,

Gwendolyn; Gubler, Mary-Lou; Wertheimer, Stanley J.

CORPORATE SOURCE: Roche Research Center, Department of Discovery

Chemistry, Hoffmann-La Roche Inc., Nutley, NJ, 07110,

USA

SOURCE: Bioorganic & Medicinal Chemistry Letters (2003),

13(20), 3607-3610

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER:

Elsevier Science B.V.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

REFERENCE COUNT:

14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 109 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 628279-04-9 REGISTRY

ED Entered STN: 19 Dec 2003

CN 1H-Purine-2,6-dione, 3-butyl-3,7-dihydro-8-(phenylmethyl)-1-(2-propenyl)-

(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C19 H22 N4 O2

SR CA

LC STN Files: CA, CAPLUS, CASREACT

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 $^{CH_2-Ph}$
 N
 N

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

140:229 CA

TITLE:

Modified 3-alkyl-1,8-dibenzylxanthines as

GTP-competitive inhibitors of phosphoenolpyruvate

carboxykinase

AUTHOR (S):

Foley, Louise H.; Wang, Ping; Dunten, Pete; Ramsey, Gwendolyn; Gubler, Mary-Lou; Wertheimer, Stanley J.

CORPORATE SOURCE:

Roche Research Center, Department of Discovery

Chemistry, Hoffmann-La Roche Inc., Nutley, NJ, 07110,

SOURCE:

USA

Bioorganic & Medicinal Chemistry Letters (2003), 13(20), 3607-3610

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER:

Elsevier Science B.V.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

REFERENCE COUNT:

THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 110 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN RN 500700-85-6 REGISTRY

ED Entered STN: 26 Mar 2003

CN 1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-[2-(4-pyridinyl)ethyl]-(9CI) (CA INDEX NAME)

OTHER NAMES:

CN NSC 74353

FS 3D CONCORD

MF C14 H15 N5 O2

SR Chemical Library

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 111 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 500700-84-5 REGISTRY

ED Entered STN: 26 Mar 2003

CN 1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-(4-pyridinylmethyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN NSC 74352

FS 3D CONCORD

MF C13 H13 N5 O2

SR Chemical Library

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 112 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 500700-83-4 REGISTRY

ED Entered STN: 26 Mar 2003

CN 1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-[2-(2-pyridinyl)ethyl](9CI) (CA INDEX NAME)

OTHER NAMES:

CN NSC 74351

FS 3D CONCORD

MF C14 H15 N5 O2

SR Chemical Library

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 113 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 500700-76-5 REGISTRY

ED Entered STN: 26 Mar 2003

CN 1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-(3-thienylmethyl)- (9CI)

(CA INDEX NAME)

OTHER NAMES:

CN NSC 74072

FS 3D CONCORD

MF C12 H12 N4 O2 S

SR Chemical Library

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

49:16011 CA

TITLE:

Theophylline derivatives. III. 8-(9-

Fluorenyl) theophylline and related compounds

AUTHOR(S):

Hager, Geo. P.; Ichniowski, Casimir T.; Wisek, Bernard

Univ. of Maryland, Baltimore

CORPORATE SOURCE:

Journal of the American Pharmaceutical Association

(1912-1977) (1954), 43, 156-8

CODEN: JPHAA3; ISSN: 0003-0465

DOCUMENT TYPE:

Journal

LANGUAGE:

Unavailable

L20 ANSWER 114 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 500308-76-9 REGISTRY

ED Entered STN: 24 Mar 2003

CN 1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-[3-(4-nitrophenyl)propyl]-(9CI) (CA INDEX NAME)

OTHER NAMES:

CN NSC 95916

FS 3D CONCORD

MF C16 H17 N5 O4

SR Chemical Library

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 115 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 497079-99-9 REGISTRY

ED Entered STN: 06 Mar 2003

CN Pyridinium, 1-[(2,3,6,7-tetrahydro-1,3-dimethyl-2,6-dioxo-1H-purin-8-yl)methyl]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C13 H14 N5 O2

CI COM

SR Reaction Database

LC STN Files: CASREACT

L20 ANSWER 116 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 366445-15-0 REGISTRY

ED Entered STN: 02 Nov 2001

CN 1H-Purine-2,6-dione, 8-[(6-ethyl-4-isoquinolinyl)methyl]-3,7-dihydro-1-methyl-3-(2-methylpropyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 8-(6-Ethylisoquinolin-4-ylmethyl)-3-isobutyl-1-methyl-3,7-dihydropurine-2,6-dione

FS 3D CONCORD

MF C22 H25 N5 O2

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

138:309280 CA

TITLE:

Combinations containing a phosphodiesterase inhibitor

INVENTOR(S): Cohen, David Saul

PATENT ASSIGNEE(S):

Novartis AG, Switz.; Novartis-Erfindungen

Verwaltungsgesellschaft M.B.H.; Novartis Pharma GmbH

SOURCE:

PCT Int. Appl., 38 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PA | TENT | NO. | | KIND DATE | | | | | A | PPLI | CATI | ои ис | ο. | DATE | | | |
|---------|-------------------------|------|------|-------------|-----|-----------------|------|-----|---------------------|------|------|-------|-----|------|------|-----|-----|
| | 2003 | | | | | | | | W | 20 | 02-E | P108: | 26 | 2002 | 0926 | | |
| WO | 2003 | | | | | | | | | | ~~ | | | | ~- | | |
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| | | LV, | MA, | MD, | MK, | MN, | MX, | NO, | NZ, | OM, | PH, | PL, | PT, | RO, | RU, | SE, | SG, |
| | | SI, | SK, | TJ, | TM, | TN, | TR, | TT, | UA, | US, | UZ, | VC, | VN. | YU, | ZA, | ZW | • |
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| | DK, EE | | | ES, | FI, | FR, | GB, | GR, | ΙE, | IT, | LU, | MC, | NL, | PT, | SE, | SK, | TR |
| ່ປຣ | 2003 | | | A1 20030619 | | | | | | | | | | | | | |
| ບຣ | 2003 | 1394 | 29 | A : | 1 | 20030724 | | | U: | S 20 | 02-2 | 3665 | 1 | 2002 | 0906 | | |
| CA | 2458 | 343 | | A | A | 2003 | 0410 | | CA 2002-2458343 | | | | | | | | |
| EP | 1432 | 423 | | A: | 2 | 2004 | 0630 | | E | P 20 | 02-7 | 7722 | 7 | 2002 | 926 | | |
| | EP 1432423 R: AT, BE | | | | | | | | | | | | | | | MC, | PT, |
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| BR | BR 2002012852 | | | | | LT, LV, FI, RO, | | | | | | | | | | | |
| | JP 2005504113 | | | | | | | | | | | | | | | | |
| | | | | | | | | | US 2001-325485P 200 | | | | | | | | |
| FRIORII | I APP | TIM. | TNLO | • • | | | | | U. | 3 20 | OT-3 | 4546: | פר | 2001 | 1521 | | |

WO 2002-EP10826 20020926

REFERENCE 2

ACCESSION NUMBER: 135:303908 CA

TITLE: 8-(Quinolinylmethyl)xanthine and 8-

(isoquinolinylmethyl)xanthine derivatives as PDE 5

inhibitors, useful for treatment of erectile

dysfunction

INVENTOR(S): Bhalay, Gurdip; Collingwood, Stephen Paul; Fairhurst,

Robin Alec; Gomez, Sylvie Felicite; Naef, Reto;

Sandham, David Andrew

PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis-Erfindungen

Verwaltungsgesellschaft m.b.H.

SOURCE: PCT Int. Appl., 70 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | | DATE | APPLICATION NO. DATE |
|------------------|-----------|-------------|--|
| WO 2001077110 | | | WO 2001-EP3909 20010405 |
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| | | | M, DZ, EE, ES, FI, GB, GD, GE, GH, GM, |
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| | | | IK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, |
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| BJ, CF | , CG, CI, | CM, GA, G | N, GW, ML, MR, NE, SN, TD, TG |
| CA 2403514 | AA 2 | 20011018 | CA 2001-2403514 20010405 |
| AU 2001073921 | A5 2 | 20011023 | AU 2001-73921 20010405 |
| | | | EP 2001-940294 20010405 |
| EP 1268480 | | | |
| | | | R, GB, GR, IT, LI, LU, NL, SE, MC, PT, |
| | | | K, CY, AL, TR |
| BR 2001009855 | A 2 | 20030603 | BR 2001-9855 20010405 |
| JP 2003530398 | T2 2 | 20031014 | JP 2001-575583 20010405 |
| AT 253576 | E 2 | 20031115 | AT 2001-940294 20010405 |
| PT 1268480 | T 2 | 20040331 | PT 2001-940294 20010405 |
| NZ 521361 | A 2 | 20040528 | NZ 2001-521361 20010405 |
| ES 2210169 | T3 2 | 20040701 | BR 2001-9855 20010405 JP 2001-575583 20010405 AT 2001-940294 20010405 PT 2001-940294 20010405 NZ 2001-521361 20010405 ES 2001-1940294 20010405 |
| NO 2002004741 | A 2 | 20021002 | NO 2002-4741 20021002 |
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| | | | ZA 2002-7956 20021003 |
| | | | US 2003-644328 20030820 |
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| US 2005054660 | | 20050310 | US 2004-937639 20040909 |
| ORITY APPLN. INF | O.: | | GB 2000-8694 20000407 WO 2001-EP3909 20010405 |
| | • | | WO 2001-EP3909 20010405 US 2002-240481 20021002 |
| | | | |
| ERENCE COUNT: | 1 | THE TO TO A | US 2003-644328 20030820 |
| SKENCE COUNT: | Τ. | | RE 1 CITED REFERENCES AVAILABLE FOR THI |

L20 ANSWER 117 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

RN 366445-14-9 REGISTRY

ED Entered STN: 02 Nov 2001

CN 6-Isoquinolinecarbonitrile, 4-[[2,3,6,7-tetrahydro-1-methyl-3-(2-methylpropyl)-2,6-dioxo-1H-purin-8-yl]methyl]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 4-[(3-Isobutyl-1-methyl-2,6-dioxo-2,3,6,7-tetrahydro-1H-purin-8-

yl)methyl]isoquinoline-6-carbonitrile

FS 3D CONCORD

MF C21 H20 N6 O2

SR CA

LC STN Files: CA, CAPLUS, USPATZ, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

138:309280 CA

TITLE:

Combinations containing a phosphodiesterase inhibitor

INVENTOR(S):

Cohen, David Saul

PATENT ASSIGNEE(S):

Novartis AG, Switz.; Novartis-Erfindungen

SOURCE:

Verwaltungsgesellschaft M.B.H.; Novartis Pharma GmbH

PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PAT | TENT NO. KIND | | | | | DATE | | | A. | PPLI | CATI | ON NO | ο. | DATE | | | | | |
|-----|-------------------------------------|------|-----|-----|-----|------|------|-----|-----|------|------|-------|-----|------|------|-----|-----|--|--|
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| WO | 2003 | 0287 | 30 | A: | 2 | 2003 | 0410 | | W | 20 | 02-E | P108 | 26 | 2002 | 0926 | | | | |
| WO |) 2003028730 A3 W: AE, AG, AL, A | | | | | 2003 | 0904 | | | | | | | | | | | | |
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     BR 2002012852
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PRIORITY APPLN. INFO.:
                                               US 2001-325485P 20010927
                                               WO 2002-EP10826 20020926
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REFERENCE 2

ACCESSION NUMBER: 135:303908 CA

8-(Quinolinylmethyl)xanthine and 8-TITLE:

(isoguinolinylmethyl) xanthine derivatives as PDE 5

inhibitors, useful for treatment of erectile

dysfunction

INVENTOR(S): Bhalay, Gurdip; Collingwood, Stephen Paul; Fairhurst,

Robin Alec; Gomez, Sylvie Felicite; Naef, Reto;

Sandham, David Andrew

PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis-Erfindungen

Verwaltungsgesellschaft m.b.H.

SOURCE: PCT Int. Appl., 70 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PA | rent : | | | | | DATE | | | | PPLI | CATI | ои ис | ٥. | DATE | | | |
|----|--------|------|-----|-----|-----|------|------|-----|-----|------|------|-------|-------|------|------|-----|-----|
| WO | 2001 | | | | | | | | | 20 | 01-E | P390 | 9 | 2001 | 0405 | | |
| | W: | ΑE, | AG, | AL, | AM, | ΑT, | ΑU, | ΑZ, | BA, | BB, | BG, | BR, | BY, | ΒZ, | CA, | CH, | CN, |
| | | CO, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EE, | ES, | FI, | GB, | GD, | GE, | GH, | GM, |
| | | HR, | HU, | ID, | IL, | IN, | IS, | JP, | ΚE, | KG, | ΚP, | KR, | KZ, | LC, | LK, | LR, | LS, |
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| | | RU, | SD, | SE, | SG, | SI, | SK, | SL, | TJ, | TM, | TR, | TT, | TZ, | UΑ, | UG, | US, | UΖ, |
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| | | | | | | | | | | | | | | TD, | | | |
| CA | 2403 | 514 | | A | A | 2001 | 1018 | | C | 4 20 | 01-2 | 4035 | 14 | 2001 | 0405 | | |
| | 2001 | | | | | | | | | | | | | | | | |
| ΕP | 1268 | 480 | | A: | 1 | 2003 | 0102 | | E | P 20 | 01-9 | 4029 | 4 | 2001 | 0405 | | |
| EP | 1268 | | | | | | | | | | | | | | | | |
| | R: | - | - | | | | | | | | | LI, | LU, | NL, | SE, | MC, | PT, |
| | | | | | | FI, | | | | | | | | | | | |
| | 2001 | | | | | | | | | | | | | | | | |
| JР | 2003 | 5303 | 98 | T: | 2 | 2003 | 1014 | | J | P 20 | 01-5 | 7558 | 3 | | | | |
| | 2535 | | | | | | | | | | | | | 2001 | | | |
| PT | 1268 | 480 | | Т | | 2004 | 0331 | | P | r 20 | 01-9 | 4029 | 4 | 2001 | | | |
| | 5213 | | | | | | | | | | | | | | | | |
| | 2210 | | | | | | | | | | | | | 2001 | | | |
| - | 2002 | | | | | | | | | - | 02-4 | | | 2002 | | | |
| | 2003 | | | | | | | | | | | | | | | | |
| | 2002 | | | | | | | | | | | | | | | | |
| US | 2004 | 0389 | 96 | A: | 1 | 2004 | 0226 | | U: | 5 20 | 03-6 | 4432 | 8 | 2003 | 0820 | | |
| US | 6919 | 337 | | B | 2 | 2005 | 0719 | | | | | | | | | | |

US 2005054660 A1 20050310 US 2004-937639 20040909
PRIORITY APPLN. INFO.: GB 2000-8694 20000407
WO 2001-EP3909 20010405
US 2002-240481 20021002
US 2003-644328 20030820

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 118 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 366445-12-7 REGISTRY

ED Entered STN: 02 Nov 2001

CN 6-Isoquinolinecarboxylic acid, 4-[[2,3,6,7-tetrahydro-1-methyl-3-(2-methylpropyl)-2,6-dioxo-1H-purin-8-yl]methyl]- (9CI) (CA INDEX NAME) OTHER NAMES:

CN 8-(6-Carboxyisoquinolin-4-ylmethyl)-3-isobutyl-1-methyl-3,7-dihydropurine-2,6-dione

FS 3D CONCORD

MF C21 H21 N5 O4

SR CA

LC STN Files: CA, CAPLUS, USPAT7, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 138:309280 CA

TITLE: Combinations containing a phosphodiesterase inhibitor

INVENTOR(S): Cohen, David Saul

PATENT ASSIGNEE(S): Novartis AG, Switz.; Novartis-Erfindungen

Verwaltungsgesellschaft M.B.H.; Novartis Pharma GmbH

SOURCE: PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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WO 2002-EP10826 20020926
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     WO 2003028730
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          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
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PRIORITY APPLN. INFO.:
                                                 WO 2002-EP10826 20020926
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REFERENCE 2

ACCESSION NUMBER:

135:303908 CA

TITLE:

8-(Quinolinylmethyl)xanthine and 8-

(isoquinolinylmethyl) xanthine derivatives as PDE 5

inhibitors, useful for treatment of erectile

dysfunction

INVENTOR(S):

Bhalay, Gurdip; Collingwood, Stephen Paul; Fairhurst,

Robin Alec; Gomez, Sylvie Felicite; Naef, Reto;

Sandham, David Andrew

PATENT ASSIGNEE(S):

Novartis A.-G., Switz.; Novartis-Erfindungen

Verwaltungsgesellschaft m.b.H.

SOURCE:

PCT Int. Appl., 70 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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PATENT NO. KIND DATE

APPLICATION 1.1

20011018 WO 2001-EP3909 20010405
PATENT NO. KIND DATE
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                                                                              EP 2001-940294
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                              A 20030603 BR 2001-9855
T2 20031014 JP 2001-575583
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JP 2003530398
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| AT | 253576 | E | 20031115 | ΑT | 2001-940294 | 20010405 |
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REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 119 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 366444-93-1 REGISTRY

ED Entered STN: 02 Nov 2001

CN 1H-Purine-2,6-dione, 8-[(6-ethynyl-4-isoquinolinyl)methyl]-3,7-dihydro-1-methyl-3-(2-methylpropyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 8-(6-Ethynylisoquinolin-4-ylmethyl)-3-isobutyl-1-methyl-3,7-dihydropurine-2,6-dione

FS 3D CONCORD

MF C22 H21 N5 O2

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 138:309280 CA

TITLE: Combinations containing a phosphodiesterase inhibitor

INVENTOR(S): Cohen, David Saul

PATENT ASSIGNEE(S): Novartis AG, Switz.; Novartis-Erfindungen

Verwaltungsgesellschaft M.B.H.; Novartis Pharma GmbH

PCT Int. Appl., 38 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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REFERENCE 2

ACCESSION NUMBER: 135:303908 CA

8-(Quinolinylmethyl)xanthine and 8-TITLE:

(isoquinolinylmethyl) xanthine derivatives as PDE 5

inhibitors, useful for treatment of erectile

dysfunction

Bhalay, Gurdip; Collingwood, Stephen Paul; Fairhurst, INVENTOR(S):

Robin Alec; Gomez, Sylvie Felicite; Naef, Reto;

Sandham, David Andrew

PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis-Erfindungen

Verwaltungsgesellschaft m.b.H.

SOURCE: PCT Int. Appl., 70 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

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REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 120 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 366444-74-8 REGISTRY

ED Entered STN: 02 Nov 2001

CN 1H-Purine-2,6-dione, 3,7-dihydro-8-(4-isoquinolinylmethyl)-1-methyl-3-(2-methylpropyl)- (9CI) (CA INDEX NAME)
OTHER NAMES:

CN 8-(Isoquinolin-4-ylmethyl)-3-isobutyl-1-methyl-3,7-dihydropurine-2,6-dione

FS 3D CONCORD

MF C20 H21 N5 O2

SR CA

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

- **PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
 - 2 REFERENCES IN FILE CA (1907 TO DATE)
 - 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

138:309280 CA

TITLE:

Combinations containing a phosphodiesterase inhibitor

INVENTOR(S):

Cohen, David Saul

PATENT ASSIGNEE(S):

Novartis AG, Switz.; Novartis-Erfindungen Verwaltungsgesellschaft M.B.H.; Novartis Pharma GmbH

SOURCE: PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PA' | TENT | NO. | | KIND DATE | | | | | A. | PPLI | CATI | Э. | DATE | | | | |
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REFERENCE 2

ACCESSION NUMBER:

135:303908 CA

TITLE:

8-(Quinolinylmethyl)xanthine and 8-

(isoquinolinylmethyl) xanthine derivatives as PDE 5

inhibitors, useful for treatment of erectile

dysfunction

INVENTOR(S):

Bhalay, Gurdip; Collingwood, Stephen Paul; Fairhurst,

Robin Alec; Gomez, Sylvie Felicite; Naef, Reto;

Sandham, David Andrew

PATENT ASSIGNEE(S):

Novartis A.-G., Switz.; Novartis-Erfindungen

Verwaltungsgesellschaft m.b.H.

SOURCE:

PCT Int. Appl., 70 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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     1H-Purine-2,6-dione, 8-(1,3-dioxolo[4,5-q]isoquinolin-8-ylmethyl)-3,7-
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     dihydro-1-methyl-3-(2-methylpropyl)- (9CI) (CA INDEX NAME)
OTHER NAMES:
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     STN Files: CA, CAPLUS, USPATZ, USPATFULL
LC
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 138:309280 CA

TITLE: Combinations containing a phosphodiesterase inhibitor

INVENTOR(S): Cohen, David Saul

PATENT ASSIGNEE(S): Novartis AG, Switz.; Novartis-Erfindungen

Verwaltungsgesellschaft M.B.H.; Novartis Pharma GmbH

SOURCE: PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PA | TENT | NO. | | KIND DATE | | | | A. | PPLI | CATI | ON NO | ٥. | DATE | | | | |
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REFERENCE 2

ACCESSION NUMBER: 135:303908 CA

TITLE: 8-(Quinolinylmethyl)xanthine and 8-

(isoquinolinylmethyl)xanthine derivatives as PDE 5

inhibitors, useful for treatment of erectile

dysfunction

INVENTOR(S): Bhalay, Gurdip; Collingwood, Stephen Paul; Fairhurst,

Robin Alec; Gomez, Sylvie Felicite; Naef, Reto;

Sandham, David Andrew

PATENT ASSIGNEE(S): Novartis A.-G., Switz.; Novartis-Erfindungen

Verwaltungsgesellschaft m.b.H.

SOURCE: PCT Int. Appl., 70 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

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REFERENCE COUNT:
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                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 122 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
L20
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     Entered STN: 29 Jun 1999
ED
     1H-Benzimidazole-5-carboximidamide, 2-[(2,3,6,7-tetrahydro-1,3-dimethyl-
CN
     2,6-dioxo-1H-purin-8-yl)methyl]- (9CI) (CA INDEX NAME)
FS
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MF
     C16 H16 N8 O2
SR
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STN Files: CA, CAPLUS

LC

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 131:19005 CA

TITLE: Preparation of amidinobenzimidazolylheterocycles as

anticoagulants.

INVENTOR(S): Fatheree, Paul R.; Jenkins, Thomas E.; Li, Yong;

Linsell, Martin S.; Rai, Roopa; Shrader, William D.;

Trapp, Sean G.; Young, Wendy B.

PATENT ASSIGNEE(S): Axys Pharmaceuticals, Inc., USA

SOURCE:

PCT Int. Appl., 105 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PAT | rent : | NO. | | KIND DATE | | | | | APPLICATION NO. DATE | | | | | | | | |
|----------|--------|-----|------|-----------|-----|------|------|-----|----------------------|-------|-------|----------------|-----|-------|------|-----|-----|
| | | | | | | | | | - | | | | | | | | |
| WO | 9926 | 932 | | A: | 1 | 1999 | 0603 | | W | 19 | 98-U | S2 5 2: | 16 | 1998: | 1125 | | |
| | W: | AL, | AM, | ΑT, | AU, | ΑZ, | BA, | BB, | BG, | BR, | BY, | CA, | CH, | CN, | CU, | CZ, | DE, |
| | | DK, | EE, | ES, | FI, | GB, | GD, | GE, | GH, | GM, | HR, | HU, | ID, | IL, | IS, | JP, | ΚE, |
| | | KG, | ΚP, | KR, | ΚZ, | LC, | LK, | LR, | LS, | LT, | LU, | LV, | MD, | MG, | MK, | MN, | MW, |
| | | MX, | NO, | NZ, | PL, | PT, | RO, | RU, | SD, | SE, | SG, | SI, | SK, | SL, | TJ, | TM, | TR, |
| | | TT, | UA, | UG, | UΖ, | VN, | YU, | ZW, | AM, | ΑZ, | BY, | KG, | ΚZ, | MD, | RU, | ТJ, | TM |
| | RW: | GH, | GM, | KΕ, | LS, | MW, | SD, | SZ, | UG, | ZW, | AT, | BE, | CH, | CY, | DE, | DK, | ES, |
| | | FΙ, | FR, | GB, | GR, | ΙE, | IT, | LU, | MC, | NL, | PT, | SE, | BF, | ВJ, | CF, | CG, | CI, |
| | | CM, | GA, | GN, | GW, | ML, | MR, | NE, | SN, | TD, | TG | | | | | | |
| AU | 9916 | 071 | | A: | 1 | 1999 | 0615 | | A | J 19 | 99-1 | 6071 | | 1998: | 1125 | | |
| PRIORITY | APP | LN. | INFO | . : | | | | | U | 3 19: | 97-7: | 2654 | | 1997: | 1126 | | |
| | | | | | | | | | W | 19: | 98-U | S252 | 16 | 1998: | 1125 | | |

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 123 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 212072-77-0 REGISTRY

ED Entered STN: 01 Oct 1998

CN 1H-Purine-2,6-dione, 8-[(4-aminophenyl)methyl]-3,7-dihydro-1-methyl-3-(2-

methylpropyl) - (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C17 H21 N5 O2

SR CA

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 129:199618 CA

TITLE: A photoaffinity probe covalently modifies the

catalytic site of the cGMP-binding cGMP-specific

phosphodiesterase (PDE-5)

AUTHOR(S): Corbin, Jackie D.; Beasley, Alfreda; Turko, Illarion

V.; Haik, Tamara L.; Mangum, Kimberly A.; Wells, Jack

N.; Francis, Sharron H.; Sekhar, Konjeti R.

CORPORATE SOURCE: Department of Molecular Physiology and Biophysics,

Vanderbilt University School of Medicine, Nashville,

TN, 37232-0615, USA

SOURCE: Cell Biochemistry and Biophysics (1998), 29(1-2),

145-157

CODEN: CBBIFV; ISSN: 1085-9195

PUBLISHER: Humana Press Inc.

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 124 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 212072-76-9 REGISTRY

ED Entered STN: 01 Oct 1998

CN 1H-Purine-2,6-dione, 3,7-dihydro-1-methyl-3-(2-methylpropyl)-8-[(4-

nitrophenyl) methyl] - (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C17 H19 N5 O4

SR CA

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 129:199618 CA

TITLE: A photoaffinity probe covalently modifies the

catalytic site of the cGMP-binding cGMP-specific

phosphodiesterase (PDE-5)

Corbin, Jackie D.; Beasley, Alfreda; Turko, Illarion AUTHOR(S):

V.; Haik, Tamara L.; Mangum, Kimberly A.; Wells, Jack

N.; Francis, Sharron H.; Sekhar, Konjeti R.

Department of Molecular Physiology and Biophysics, CORPORATE SOURCE:

Vanderbilt University School of Medicine, Nashville,

TN, 37232-0615, USA

Cell Biochemistry and Biophysics (1998), 29(1-2), SOURCE:

145-157

CODEN: CBBIFV; ISSN: 1085-9195

PUBLISHER:

Humana Press Inc.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

REFERENCE COUNT:

20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 125 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN L20

189215-25-6 REGISTRY RN

ED Entered STN: 23 May 1997

1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-[(4-methylphenyl)methyl]-CN

(9CI) (CA INDEX NAME)

FS 3D CONCORD

C15 H16 N4 O2 MF

SR CA

LCSTN Files: CA, CAPLUS, USPATFULL

$$\begin{array}{c} \text{Me} \\ \\ \text{N} \\ \text{NH} \end{array}$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

126:305588 CA

TITLE:

Preparation of 4-(dioxopurinylmethyl)phenylacetates

and analogs as hypolipemics

INVENTOR(S):

Connell, Richard; Goldmann, Siegfried; Mueller, Ulrich; Lohmer, Stefan; Bischoff, Hilmar; Denzer,

Dirk; Gruetzmann, Rudi; Wohlfeil, Stefan

PATENT ASSIGNEE(S):

Bayer A.-G., Germany Eur. Pat. Appl., 69 pp.

SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

1

KIND DATE APPLICATION NO. DATE PATENT NO. _____ _____ ----EP 764647 A1 19970326 EP 1996-114577 19960912 R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE DE 1995-19535504 19950925 19970327 DE 19535504 A1 19980203 US 1996-710503 19960918 US 5714494 Α JP 1996-267691 19960919 A2 19970819 JP 09216884 CA 1996-2186086 19960920 19970326 CA 2186086 AΑ DE 1995-19535504 19950925 PRIORITY APPLN. INFO.: L20 ANSWER 126 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

189215-24-5 REGISTRY RN

Entered STN: 23 May 1997 ED

1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-[(3-methylphenyl)methyl]-CN (9CI) (CA INDEX NAME)

3D CONCORD FS

C15 H16 N4 O2 MF

SR

CA, CAPLUS, USPATFULL LC STN Files:

$$\begin{array}{c|c} Me \\ \hline \\ N \\ NH \end{array}$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

126:305588 CA ACCESSION NUMBER:

Preparation of 4-(dioxopurinylmethyl)phenylacetates TITLE:

and analogs as hypolipemics

Connell, Richard; Goldmann, Siegfried; Mueller, INVENTOR(S):

Ulrich; Lohmer, Stefan; Bischoff, Hilmar; Denzer,

Dirk; Gruetzmann, Rudi; Wohlfeil, Stefan

Bayer A.-G., Germany PATENT ASSIGNEE(S):

Eur. Pat. Appl., 69 pp. SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE: Patent German LANGUAGE:

FAMILY ACC. NUM. COUNT:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------------|---------------|--------------------|-------------------|
| | | | | |
| EP 764647 | A 1 | 19970326 | EP 1996-114577 | 19960912 |
| R: AT, BE, | CH, DE, | , DK, ES, FI, | FR, GB, GR, IE, IT | , LI, LU, MC, NL, |
| PT, SE | | | | |

DE 1995-19535504 19950925 19970327 DE 19535504 Α1 US 1996-710503 19960918 19980203 US 5714494 Α JP 1996-267691 19970819 19960919 JP 09216884 A2 CA 1996-2186086 19960920 CA 2186086 AA19970326 DE 1995-19535504 19950925 PRIORITY APPLN. INFO.:

ANSWER 127 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

ED

189215-23-4 REGISTRY
Entered STN: 23 May 1997
1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-[(2-methylphenyl)methyl]-CN (CA INDEX NAME)

FS 3D CONCORD

MF C15 H16 N4 O2

SR

LCSTN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 126:305588 CA

Preparation of 4-(dioxopurinylmethyl) phenylacetates TITLE:

and analogs as hypolipemics

Connell, Richard; Goldmann, Siegfried; Mueller, INVENTOR(S):

Ulrich; Lohmer, Stefan; Bischoff, Hilmar; Denzer,

Dirk; Gruetzmann, Rudi; Wohlfeil, Stefan

PATENT ASSIGNEE(S): Bayer A.-G., Germany

Eur. Pat. Appl., 69 pp. SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT:

| PATENT NO. | KIND I | DATE | APPLICATION NO. | DATE |
|----------------------|---------|-------------|--------------------|-----------------|
| | | | | |
| EP 764647 | A1 1 | 19970326 | EP 1996-114577 | 19960912 |
| R: AT, BE, | CH, DE, | DK, ES, FI, | FR, GB, GR, IE, IT | LI, LU, MC, NL, |
| PT, SE | | | | |
| DE 19535504 | A1 1 | 19970327 | DE 1995-19535504 | 19950925 |
| US 5714494 | A 1 | 19980203 | US 1996-710503 | 19960918 |
| JP 09216884 | A2] | 19970819 | JP 1996-267691 | 19960919 |
| CA 2186086 | AA I | 19970326 | CA 1996-2186086 | 19960920 |
| PRIORITY APPLN. INFO | . : | | DE 1995-19535504 | 19950925 |

L20 ANSWER 128 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 163435-93-6 REGISTRY

ED Entered STN: 01 Jun 1995

CN 1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-[4-(2-nitro-1H-imidazol-1-

yl)butyl] - (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C14 H17 N7 O4

SR CA

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

122:309889 CA

TITLE:

Potential bioreductively activated hypoxia probes and

post-irradiation radiosensitizers related to NITP

AUTHOR(S): Mehta, Lina K.; Monney, Hugh; Parrick, John; Hodgkiss, Richard J.

CORPORATE SOURCE:

Chem. Dep., Brunel Univ., Middlesex, UB8 3PH, UK

SOURCE: Anti-Cancer Drug Design (1995), 10(3), 227-41

CODEN: ACDDEA; ISSN: 0266-9536

PUBLISHER:

Oxford University Press

DOCUMENT TYPE:

Journal

LANGUAGE:

English

L20 ANSWER 129 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 160919-41-5 REGISTRY

ED Entered STN: 17 Feb 1995

CN 1H-Purine-2,6-dione, 3,7-dihydro-8-(2-phenylpropyl)-1,3-dipropyl- (9CI)

(CA INDEX NAME)

FS 3D CONCORD

DR 152772-70-8

MF C20 H26 N4 O2

SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

$$\begin{array}{c|c} & \text{Ph} & \text{Ph} \\ & & | \\ & \text{N} & \text{CH}_2\text{--}\text{CH--}\text{Me} \\ \\ & \text{N-Pr} & \text{O} \end{array}$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 122:132850 CA

TITLE: Preparation of 8-substituted xanthines as selective

adenosine receptor agents

INVENTOR(S): Peet, Norton P.; Lentz, Nelsen L.

PATENT ASSIGNEE(S): Merrell Dow Pharmaceuticals Inc., USA

SOURCE: PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PA. | rent : | | | | | DATE | | | | | | | Ο. | DATE | | | | |
|-------|--------|-----|------|-----|-----|------|------|-----|-----|------|--------|------|-----|------|------|-----|-----|----|
| WO | 9426 | | | | | | | | | | | | 8 | 1994 | 0413 | | | |
| | W: | ΑT, | AU, | BB, | ВG, | BR, | BY, | CA, | CH, | CN, | CZ, | DE, | DK, | ES, | FI, | GB, | HU, | |
| | | JP, | ΚP, | KR, | ΚZ, | LK, | LU, | LV, | MG, | MN, | MW, | NL, | NO, | NZ, | PL, | PT, | RO, | |
| | | RU, | SD, | SE, | SK, | UA, | US, | UΖ, | VN | | | | | | | | | |
| | RW: | AT, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | ΙE, | IT, | LU, | MC, | NL, | PT, | SE, | |
| | | BF, | ВJ, | CF, | CG, | CI, | CM, | GΑ, | GN, | ML, | MR, | ΝE, | SN, | TD, | TG | | | |
| | 2159 | | | | | | | | CZ | A 19 | 94-2 | 1599 | 89 | 1994 | 0413 | | | |
| CA | 2159 | 989 | | С | | 1994 | 1124 | | | | | | | | | | | |
| | 9467 | | | | | | | | Α | J 19 | 94-6 | 7032 | | 1994 | 0413 | | | |
| AU | 6763 | 23 | | B | 2 | 1997 | 0306 | | | | | | | | | | | |
| EP | 6970 | 20 | | A: | 1 | 1996 | 0221 | | E | ? 19 | 94-9 | 1477 | 0 | 1994 | 0413 | | | |
| | | | | | | DK, | | | | | | | | | | | PT, | SE |
| HU | 7232 | 7 | | A: | 2 | 1996 | 0429 | | H | J 19 | 95-3 | 154 | | 1994 | 0413 | | | |
| CN | 1122 | 599 | | Α | | 1996 | 0515 | | CI | 1 19 | 94-1 | 9200 | 5 | 1994 | 0413 | | | |
| CN | 1043 | 473 | | В | | 1999 | 0526 | | | | | | | | | | | |
| | 0850 | | | | | 1996 | | | | | | | | 1994 | | | | |
| | 9403 | | | | | | | | | | | | | | | | | |
| | 1095 | | | | | 1999 | | | | | | | | 1994 | 0503 | | | |
| | 5734 | | | | | | | | | | | | | 1995 | | | | |
| FI | 9505 | 257 | | Α | | 1995 | 1102 | | F. | I 19 | 95-5 | 257 | | 1995 | 1102 | | | |
| NO | 9504 | 399 | | Α | | 1996 | 0108 | | N | 19 | 95-4 | 399 | | 1995 | 1103 | | | |
| IORIT | Y APP | LN. | INFO | .: | | | | | U | 5 19 | 93-5 | 8523 | | 1993 | 0506 | | | |
| | | | | | | | | | W | 19 | 94 - U | S403 | 8 | 1994 | 0413 | | | |

REFERENCE 2

ACCESSION NUMBER: 120:106635 CA

TITLE: Xanthines with C8 chiral substituents as potent and

selective adenosine Al antagonists

AUTHOR(S): Peet, Norton P.; Lentz, Nelsen L.; Dudley, Mark W.;

Ogden, Ann Marie L.; McCarty, Deborah R.; Racke,

Margaret M.

CORPORATE SOURCE: Marion Merrell Dow Res. Inst., Cincinnati, OH, 45215,

USA

SOURCE: Journal of Medicinal Chemistry (1993), 36(25), 4015-20

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

L20 ANSWER 130 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 159722-55-1 REGISTRY ED Entered STN: 22 Dec 1994

CN 1H-Purine-2,6-dione, 3,7-dihydro-8-[1-(phenylmethyl)propyl]-1,3-dipropyl-

(9CI) (CA INDEX NAME)

FS 3D CONCORD

DR 152772-68-4

MF C21 H28 N4 O2

SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

$$\begin{array}{c|c} & & & & CH_2-Ph \\ & & & & CH-Et \\ \hline & & & CH-Et \\ \hline & & & NH \\ \hline & & & NH \\ \end{array}$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 122:31546 CA

TITLE: Preparation of xanthine-derivative adenosine A1

receptor antagonists

INVENTOR(S): Hitchcock, Janice M.; Sorenson, Stephen M.; Dudley,

Mark W.; Peet, Norton P.

PATENT ASSIGNEE(S): Merrell Dow Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 9419349 A1 19940901 WO 1994-US1009 19940127

W: AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, HU,

```
JP, KP, KR, KZ, LK, LU, LV, MG, MN, MW, NL, NO, NZ, PL, PT, RO,
            RU, SD, SE, SK, UA, US, UZ, VN
        RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,
            BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG
                                         CA 1994-2155130 19940127
                           19940901
    CA 2155130
                      AA
                            19940901
    CA 2155130
                       С
                            19940914
                                           AU 1994-62968
    AU 9462968
                      A1
                                                            19940127
    AU 680241
                      B2
                            19970724
                                           EP 1994-910661
    EP 686155
                      A1
                            19951213
                                                            19940127
    EP 686155
                      В1
                            19980729
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
    CN 1118599
                            19960313
                                          CN 1994-191309 19940127
                      Α
    CN 1041418
                      В
                            19981230
    HU 72677
                      A2
                            19960528
                                           HU 1995-2495
                                                            19940127
    JP 08512281
                      T2
                            19961224
                                           JP 1994-518986
                                                            19940127
    AT 169019
                      \mathbf{E}
                            19980815
                                           AT 1994-910661
                                                            19940127
    ES 2120025
                      Т3
                            19981016
                                           ES 1994-910661
                                                            19940127
    ZA 9401176
                            19940920
                                           ZA 1994-1176
                      Α
                                                            19940221
    IL 108750
                            20000928
                                           IL 1994-108750
                      A1
                                                            19940223
    NO 9503353
                            19950825
                                           NO 1995-3353
                                                            19950825
                      Α
    NO 311920
                      B1
                            20020218
    US 5840729 .
                      Α
                            19981124
                                           US 1995-500991
                                                            19951218
PRIORITY APPLN. INFO.:
                                           US 1993-23501
                                                            19930226
                                           WO 1994-US1009
                                                            19940127
```

REFERENCE 2

ACCESSION NUMBER: 120:106635 CA

TITLE: Xanthines with C8 chiral substituents as potent and

selective adenosine A1 antagonists

AUTHOR(S): Peet, Norton P.; Lentz, Nelsen L.; Dudley, Mark W.;

Ogden, Ann Marie L.; McCarty, Deborah R.; Racke,

Margaret M.

CORPORATE SOURCE: Marion Merrell Dow Res. Inst., Cincinnati, OH, 45215,

USA

SOURCE: Journal of Medicinal Chemistry (1993), 36(25), 4015-20

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal LANGUAGE: English

L20 ANSWER 131 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 148084-00-8 REGISTRY

ED Entered STN: 11 Jun 1993

CN 2H-Purin-2-one, 1,3,6,8-tetrahydro-6-hydroxy-1,3,8-tris(phenylmethyl)-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C26 H24 N4 O2

SR CA

LC STN Files: CA, CAPLUS, CHEMINFORMRX

$$Ph-CH_2$$
 O
 N
 N
 CH_2-Ph
 $Ph-CH_2$
 OH

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

119:8766 CA

TITLE:

Alkylation and covalent adduct formation of

2-oxopurine

AUTHOR(S):

Gogoll, Adolf; Gundersen, Lise-Lotte; Rise, Frode;

Valli, Mats

CORPORATE SOURCE:

Dep. Org. Chem., Uppsala Univ., Uppsala, S-751 21,

Swed.

SOURCE:

Heterocycles (1993), 36(2), 231-5 CODEN: HTCYAM; ISSN: 0385-5414

Journal

DOCUMENT TYPE: LANGUAGE:

English

L20 ANSWER 132 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 137766-82-6 REGISTRY

ED Entered STN: 13 Dec 1991

CN 1H-Purine-2,6-dione, 3,7-dihydro-8-(1-phenylpropyl)-1,3-dipropyl-, (S)-(9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C20 H26 N4 O2

SR CA

LC STN Files: ADISINSIGHT, BEILSTEIN*, CA, CAPLUS, CASREACT, PROUSDDR, USPATFULL

(*File contains numerically searchable property data)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

122:31546 CA

TITLE:

Preparation of xanthine-derivative adenosine Al

receptor antagonists

INVENTOR(S):

Hitchcock, Janice M.; Sorenson, Stephen M.; Dudley,

Mark W.; Peet, Norton P.

PATENT ASSIGNEE(S):

Merrell Dow Pharmaceuticals, Inc., USA

SOURCE:

PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

. 1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PAT | ENT | NO. | | KII | ND | DATE | | | Al | PLI | CATI | ON N | 0. | DATE | | | | |
|-----|------|------|------|-----|-----|------|------|-----|-----|------|--------|------|-----|------|------|-----|-----|----|
| WO | 9419 | 349 | | A: | 1 | 1994 | 0901 | | W | 19 | 94 - U | S100 | 9 | 1994 | 0127 | | | |
| | | | | | | | | | | | | | | ES, | | | HU, | |
| | | | | | | | | | | | | | | NZ, | | | | |
| | | | | | | UA, | | | | | _ | | - | | • | - | | |
| | RW: | | | • | | • | | - | | GR, | ΙE, | IT, | LU, | MC, | NL, | PT, | SE, | |
| | | | | | | | | | | | | | | TD, | | | | |
| CA | 2155 | | | | | | | | | | | | | | | | | |
| | 2155 | | | | | | | | | | | | | | | | | |
| | 9462 | | | | | | | | A | J 19 | 94-6 | 2968 | | 1994 | 0127 | | | |
| ΑU | 6802 | 41 | | B: | 2 | 1997 | 0724 | | | | | | | | | | | |
| EP | 6861 | 55 | | A: | 1 | 1995 | 1213 | | E | P 19 | 94-9 | 1066 | 1 | 1994 | 0127 | | | |
| | 6861 | | | | | | | | | | | | | | | | | |
| | R: | AT, | ΒE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | ΙE, | IT, | LI, | LU, | MC, | NL, | PT, | SE |
| CN | 1118 | 599 | | Α | | 1996 | 0313 | | Cl | N 19 | 94-1 | 9130 | 9 | 1994 | 0127 | | | |
| CN | 1041 | 418 | | В | | 1998 | 1230 | | | | | | | | | | | |
| | 7267 | | | | | | | | | | | | | | | | | |
| JP | 0851 | 2281 | | T | 2 | 1996 | 1224 | | J: | P 19 | 94-5 | 1898 | 6 | 1994 | 0127 | | | |
| | 1690 | | | | | 1998 | 0815 | | A' | Г 19 | 94-9 | 1066 | 1 | 1994 | | | | |
| ES | 2120 | 025 | | T | 3 | 1998 | 1016 | | E | S 19 | 94-9 | 1066 | 1 | 1994 | 0127 | | | |
| | 9401 | | | | | | | | | | | | | 1994 | 0221 | | | |
| IL | 1087 | 50 | | A | 1 | 2000 | 0928 | | I | և 19 | 94-1 | 0875 | 0 | 1994 | 0223 | | | |
| NO | 9503 | 353 | | Α | | 1995 | 0825 | | N | 0 19 | 95-3 | 353 | | 1995 | 0825 | | | |
| NO | 3119 | 20 | | В | 1 | 2002 | 0218 | | | | | | | | | | | |
| US | 5840 | 729 | | Α | | 1998 | 1124 | | U | 5 19 | 95-5 | 0099 | 1 | 1995 | 1218 | | | |
| RIT | APP | LN. | INFO | .: | | | | | U | S 19 | 93-2 | 3501 | | 1993 | 0226 | | | |
| | | | | | | | | | M | 0 19 | 94-U | S100 | 9 | 1994 | 0127 | | | |

REFERENCE 2

ACCESSION NUMBER:

120:106635 CA

TITLE:

Xanthines with C8 chiral substituents as potent and

selective adenosine Al antagonists

AUTHOR(S):

Peet, Norton P.; Lentz, Nelsen L.; Dudley, Mark W.; Ogden, Ann Marie L.; McCarty, Deborah R.; Racke,

Margaret M.

CORPORATE SOURCE:

Marion Merrell Dow Res. Inst., Cincinnati, OH, 45215,

USA

SOURCE:

Journal of Medicinal Chemistry (1993), 36(25), 4015-20

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE:

LANGUAGE:

Journal English

REFERENCE 3

ACCESSION NUMBER:

116:6578 CA

TITLE:

Preparation of 8-phenethyl- and 8-indon-2-yl-3,7-dihydro-1H-purine-2,6-diones as selective adenosine

receptor agents

INVENTOR(S):

Peet, Norton P.; Lentz, Nelson L.

PATENT ASSIGNEE(S):

Merrell Dow Pharmaceuticals, Inc., USA

SOURCE:

U.S., 15 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------|-----------|----------------------|-----------------------|----------|
| US 5047534 | Α | 19910910 | US 1990-499111 | 19900326 |
| AU 9173537 | A1 | 19911003 | AU 1991-73537 | 19910319 |
| AU 632914 | B2 | 19930114 | | |
| ZA 9102038 | | | ZA 1991-2038 | |
| CA 2038747 | AA | 19910927 | CA 1991-2038747 | 19910321 |
| CA 2038747 | C | | | |
| IL 97656 | | | IL 1991-97656 | |
| FI 9101420 | Α | 19910927 | FI 1991-1420 | 19910325 |
| FI 98461 | В | 19970314 | NO 1991-1200 | |
| FI 98461 | C | 19970625 | | |
| NO 9101200 | Α | 19910927 | NO 1991-1200 | 19910325 |
| NO 177591 | В | 19950710 19951018 | | |
| NO 177591 | C | 19951018 | | |
| | | | HU 1991-985 | 19910325 |
| HU 208824 | В | 19940128 | | |
| EP 449175 | A2 | 19911002 | EP 1991-104668 | 19910325 |
| | | | | |
| EP 449175 | | | | |
| | | | R, GB, GR, IT, LI, LU | |
| CN 1055181 | Α | 19911009 | CN 1991-101892 | 19910325 |
| CN 1032815 | В | 19960918 | | |
| AT 156130 | E | 19970815 | AT 1991-104668 | 19910325 |
| | | | ES 1991-104668 | |
| | | | KR 1991-4660 | |
| | | | JP 1991-84512 | 19910326 |
| JP 3181305 | B2 | 20010703 | | |
| PRIORITY APPLN. INFO | . : | | US 1990-499111 | 19900326 |

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L20 ANSWER 133 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
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Absolute stereochemistry.

RN 137766-81-5 REGISTRY

ED Entered STN: 13 Dec 1991

CN 1H-Purine-2,6-dione, 3,7-dihydro-8-[(1R)-1-phenylpropyl]-1,3-dipropyl-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H-Purine-2,6-dione, 3,7-dihydro-8-(1-phenylpropyl)-1,3-dipropyl-, (R)-OTHER NAMES:

CN MDL 102234

FS STEREOSEARCH

MF C20 H26 N4 O2

SR CA

LC STN Files: ADISINSIGHT, ADISNEWS, BEILSTEIN*, CA, CAPLUS, CASREACT, MEDLINE, PHAR, PROUSDDR, USPATFULL

^{(*}File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6 REFERENCES IN FILE CA (1907 TO DATE)

6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 130:246861 CA

TITLE: Pyrazolopyridine derivatives act as competitive

antagonists of brain adenosine Al receptors:

[35S]GTPyS binding studies

Ito, Harunobu; Maemoto, Takuya; Akahane, Atsushi; AUTHOR (S):

Butcher, Steven P.; Olverman, Henry J.; Finlayson,

Keith

CORPORATE SOURCE: Fujisawa Institute of Neuroscience, Japan

European Journal of Pharmacology (1999), 365(2/3), SOURCE:

309-315

CODEN: EJPHAZ; ISSN: 0014-2999

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

REFERENCE 2

129:118143 CA ACCESSION NUMBER:

Pharmacological characterization of a simple TITLE:

behavioral response mediated selectively by central adenosine Al receptors, using in vivo and in vitro

techniques

AUTHOR (S): Marston, Hugh M.; Finlayson, Keith; Maemoto, Takuya;

Olverman, Henry J.; Akahane, Atsushi; Sharkey, John;

Butcher, Steven P.

Fujisawa Institute of Neuroscience, University of CORPORATE SOURCE:

Edinburgh, Edinburgh, UK

Journal of Pharmacology and Experimental Therapeutics SOURCE:

(1998), 285(3), 1023-1030

CODEN: JPETAB; ISSN: 0022-3565

PUBLISHER: Williams & Wilkins

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS 41

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

REFERENCE 3

ACCESSION NUMBER: 128:97575 CA

Species differences in brain adenosine Al receptor TITLE:

pharmacology revealed by use of xanthine and

pyrazolopyridine based antagonists

Maemoto, Takuya; Finlayson, Keith; Olverman, Henry J.; Akahane, Atsushi; Horton, Roger W.; Butcher, Steven P. AUTHOR (S):

Fujisawa Institute of Neuroscience, University of CORPORATE SOURCE:

Edinburgh, Edinburgh, EH8 9JZ, UK

British Journal of Pharmacology (1997), 122(6), SOURCE:

1202-1208

CODEN: BJPCBM; ISSN: 0007-1188

PUBLISHER: Stockton Press

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

REFERENCE 4

ACCESSION NUMBER: 122:31546 CA

TITLE: Preparation of xanthine-derivative adenosine Al

receptor antagonists

Hitchcock, Janice M.; Sorenson, Stephen M.; Dudley, INVENTOR(S):

Mark W.; Peet, Norton P.

Merrell Dow Pharmaceuticals, Inc., USA PATENT ASSIGNEE(S):

SOURCE: PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

| PAT | TENT NO. | | KIND | DATE | | APPLICATION NO. | DATE | |
|------------|-------------------|------------|--------|----------|------------|--|----------------------|------------|
| WO | W: AT, | AU, | BB, BG | BR, BY, | CA, | WO 1994-US1009 CH, CN, CZ, DE, DK, MG, MN, MW, NL, NO, | , ES, FI, (| |
| | RW: AT, | BE, BJ, | CH, DE | CI, CM, | FR, GA, | GB, GR, IE, IT, LU, GN, ML, MR, NE, SN, | , TD, TG | PT, SE, |
| CA | 2155130 | | AA | 19940901 | | CA 1994-2155130 | 19940127 | |
| CA | 2155130 | | C | 19940901 | | | | |
| | | | | | | AU 1994-62968 | 19940127 | |
| AU | 680241 | | B2 | 19970724 | | | | |
| EP | 686155 | | A1 | 19951213 | | EP 1994-910661 | 19940127 | |
| EP | 686155 | | B1 | 19980729 | | | | |
| | • | - | | | | GB, GR, IE, IT, LI, | | NL, PT, SE |
| | | | | | | CN 1994-191309 | 19940127 | |
| CN | | | | 19981230 | | | | |
| | | | | | | HU 1995-2495 | 19940127 | |
| JP | 08512281 | L, | T2 | | | | 19940127 | |
| AΤ | 169019 | | E | 19980815 | | AT 1994-910661 | 19940127 | |
| ES | 2120025 | | Т3 | 19981016 | | ES 1994-910661 | 19940127 | |
| | | | | | | ZA 1994-1176 | | |
| $_{ m IL}$ | 108750 | | A1 | | | IL 1994-108750 | | |
| NO | 9503353 | | Α | 19950825 | | NO 1995-3353 | 19950825 | |
| NO | 311920 | | B1 | 20020218 | | | | |
| | 5840729 APPLN. | | | 19981124 | | US 1995-500991 US 1993-23501 | 19951218 19930226 | • |
| | | | | | | | | |

WO 1994-US1009 19940127

REFERENCE 5

ACCESSION NUMBER: 120:106635 CA

TITLE: Xanthines with C8 chiral substituents as potent and

selective adenosine A1 antagonists

AUTHOR(S): Peet, Norton P.; Lentz, Nelsen L.; Dudley, Mark W.;

Ogden, Ann Marie L.; McCarty, Deborah R.; Racke,

Margaret M.

CORPORATE SOURCE: Marion Merrell Dow Res. Inst., Cincinnati, OH, 45215,

USA

Journal

SOURCE: Journal of Medicinal Chemistry (1993), 36(25), 4015-20

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE:

LANGUAGE: English

REFERENCE 6

ACCESSION NUMBER: 116:6578 CA

TITLE: Preparation of 8-phenethyl- and 8-indon-2-yl-3,7-

dihydro-1H-purine-2,6-diones as selective adenosine

receptor agents

INVENTOR(S): Peet, Norton P.; Lentz, Nelson L.

PATENT ASSIGNEE(S): Merrell Dow Pharmaceuticals, Inc., USA

SOURCE: U.S., 15 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

| PATEN | T NO. | KIND | DATE | APPLICATION | ON NO. | DATE |
|-------|------------|--------|-----------|-----------------|---------|----------|
| | | | | + | | |
| |)47534 | | | US 1990-49 | | 19900326 |
| AU 91 | L73537 | A1 | 19911003 | AU 1991-73 | 3537 | 19910319 |
| AU 63 | 32914 | B2 | 19930114 | | | |
| ZA 91 | L02038 | Α | 19911224 | ZA 1991-20 | 338 | 19910319 |
| CA 20 | 38747 | | 19910927 | CA 1991-20 | 338747 | 19910321 |
| CA 20 | 38747 | С | 20020528 | | | |
| IL 97 | 7656 | A1 | 19960618 | IL 1991-9 | 7656 | 19910322 |
| FI 91 | L01420 | Α | 19910927 | FI 1991-14 | 120 | 19910325 |
| FI 98 | 3461 | В | 19970314 | | | |
| FI 98 | 3461 | С | 19970625 | | | |
| NO 91 | L01200 | Α | 19910927 | NO 1991-12 | 200 | 19910325 |
| NO 17 | 77591 | В | 19950710 | | | |
| NO 17 | | C | 19951018 | | | |
| HU 56 | 5570 | A2 | 19910930 | HU 1991-98 | 35 | 19910325 |
| HU 20 | 8824 | В | 19940128 | | | |
| EP 44 | | A2 | 19911002 | EP 1991-10 | 04668 | 19910325 |
| EP 44 | 19175 | A3 | 19930120 | | | |
| EP 44 | 19175 | B1 | 19970730 | | | |
| F | R: AT, BE, | CH, DE | , DK, ES, | FR, GB, GR, IT, | LI, LU, | , NL, SE |
| | 55181 | Α | 19911009 | CN 1991-10 |)1892 | 19910325 |
| CN 10 | 32815 | В | 19960918 | | | |
| AT 15 | 6130 | E | 19970815 | AT 1991-10 |)4668 | 19910325 |
| ES 21 | 107431 | Т3 | 19971201 | ES 1991-10 |)4668 | 19910325 |
| | 95368 | | 19990615 | KR 1991-46 | 560 | 19910325 |
| JP 04 | 221384 | A2 | 19920811 | JP 1991-84 | 1512 | 19910326 |

JP 3181305

20010703 B2

PRIORITY APPLN. INFO.:

US 1990-499111 19900326

L20 ANSWER 134 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

137706-76-4 REGISTRY RN

Entered STN: 06 Dec 1991 ED

1H-Purine-2,6-dione, 3,7-dihydro-8-(1-phenylethyl)-1,3-dipropyl-, (S)-CN (9CI) (CA INDEX NAME)

STEREOSEARCH FS

MF C19 H24 N4 O2

SR

STN Files: CA, CAPLUS, CASREACT, USPATFULL LC

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

122:31546 CA

TITLE:

Preparation of xanthine-derivative adenosine A1

receptor antagonists

INVENTOR(S):

Hitchcock, Janice M.; Sorenson, Stephen M.; Dudley,

Mark W.; Peet, Norton P.

PATENT ASSIGNEE(S):

Merrell Dow Pharmaceuticals, Inc., USA

SOURCE:

PCT Int. Appl., 62 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

| PATENT : | NO. | | KII | ND : | DATE | | | A. | PPLI | CATI | и ис | Э. | DATE | | | |
|----------|-----|-----|-----|------|------|------|-----|-----|------|--------|------|-----|------|------|-----|-----|
| | | | | | | | | _ | | | | | | | | |
| WO 9419 | 349 | | A: | 1 | 1994 | 0901 | | W | 0 19 | 94 - U | S100 | 9 | 1994 | 0127 | | |
| W: | AT, | AU, | BB, | BG, | BR, | BY, | CA, | CH, | CN, | CZ, | DE, | DK, | ES, | FI, | GB, | HU, |
| | | | | | | | | | | | | | NZ, | | | |
| | RŲ, | SD, | SE, | SK, | UA, | US, | UΖ, | VN | | | | | | | | |
| RW: | | | | | | | | | | | | | MC, | | PT, | SE, |
| | BF, | ВJ, | CF, | CG, | CI, | CM, | GΑ, | GN, | ML, | MR, | ΝE, | SN, | TD, | TG | | |
| CA 2155 | 130 | | A | A | 1994 | 0901 | | C | A 19 | 94-2 | 1551 | 30 | 1994 | 0127 | | |
| CA 2155 | 130 | | C | | 1994 | 0901 | | | | | | | | | | |
| AU 9462 | 968 | | A | 1 | 1994 | 0914 | | A | U 19 | 94-6 | 2968 | | 1994 | 0127 | | |
| AU 6802 | 41 | | B | 2 | 1997 | 0724 | | | | | | | | | | |

| EP | 686155 | A1 | 19951213 | EP 1994-910661 | 19940127 |
|----------|-------------|------------|---------------|--------------------|----------------------|
| EP | 686155 | B1 | 19980729 | | |
| | R: AT, BE, | CH, DE | , DK, ES, FR, | GB, GR, IE, IT, LI | , LU, MC, NL, PT, SE |
| CN | 1118599 | Α | 19960313 | CN 1994-191309 | 19940127 |
| CN | 1041418 | В | 19981230 | | |
| HU | 72677 | A2 | 19960528 | HU 1995-2495 | 19940127 |
| JP | 08512281 | T2 | 19961224 | JP 1994-518986 | 19940127 |
| AT | 169019 | E | 19980815 | AT 1994-910661 | 19940127 |
| ES | 2120025 | T 3 | 19981016 | ES 1994-910661 | 19940127 |
| ZA | 9401176 | Α | 19940920 | ZA 1994-1176 | 19940221 |
| IL | 108750 | A1 | 20000928 | IL 1994-108750 | 19940223 |
| NO | 9503353 | Α | 19950825 | NO 1995-3353 | 19950825 |
| NO | 311920 | B1 | 20020218 | | |
| US | 5840729 | Α | 19981124 | US 1995-500991 | 19951218 |
| PRIORITY | APPLN. INFO | . : | | US 1993-23501 | 19930226 |
| | | | | WO 1994-US1009 | 19940127 |

REFERENCE 2

ACCESSION NUMBER: 120:106635 CA

Xanthines with C8 chiral substituents as potent and TITLE:

selective adenosine Al antagonists

Peet, Norton P.; Lentz, Nelsen L.; Dudley, Mark W.; AUTHOR(S):

Ogden, Ann Marie L.; McCarty, Deborah R.; Racke,

Margaret M.

Marion Merrell Dow Res. Inst., Cincinnati, OH, 45215, CORPORATE SOURCE:

USA

Journal of Medicinal Chemistry (1993), 36(25), 4015-20 SOURCE:

CODEN: JMCMAR; ISSN: 0022-2623

Journal DOCUMENT TYPE:

LANGUAGE: English

REFERENCE 3

ACCESSION NUMBER: 116:6578 CA

Preparation of 8-phenethyl- and 8-indon-2-yl-3,7-TITLE:

dihydro-1H-purine-2,6-diones as selective adenosine

receptor agents

Peet, Norton P.; Lentz, Nelson L. INVENTOR(S):

Merrell Dow Pharmaceuticals, Inc., USA PATENT ASSIGNEE(S):

SOURCE: U.S., 15 pp. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| | | | | |
| US 5047534 | Α | 19910910 | US 1990-499111 | 19900326 |
| AU 9173537 | A1 | 19911003 | AU 1991-73537 | 19910319 |
| AU 632914 | B2 | 19930114 | | |
| ZA 9102038 | Α | 19911224 | ZA 1991-2038 | 19910319 |
| CA 2038747 | AA | 19910927 | CA 1991-2038747 | 19910321 |
| CA 2038747 | C | 20020528 | | |
| IL 97656 | A1 | 19960618 | IL 1991-97656 | 19910322 |
| FI 9101420 | Α | 19910927 | FI 1991-1420 | 19910325 |
| FI 98461 | В | 19970314 | | |
| FI 98461 | С | 19970625 | | |
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NO 1991-1200
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                       С
    NO 177591
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                       A2
                       В
                             19940128
    HU 208824
                             19911002
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                             19911009
                             19960918
                       В
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                                            AT 1991-104668
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     AT 156130
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     ES 2107431
                                            KR 1991-4660
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     KR 195368
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                                            JP 1991-84512
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     JP 04221384
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     JP 3181305
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                                            US 1990-499111
                                                              19900326
PRIORITY APPLN. INFO.:
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L20 ANSWER 135 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 137685-70-2 REGISTRY

ED Entered STN: 06 Dec 1991

CN 1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-(1-methyl-2-phenylethyl)(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-(1-methyl-2-phenylethyl)-, (+)-

FS 3D CONCORD

MF C16 H18 N4 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 122:31546 CA

TITLE: Preparation of xanthine-derivative adenosine A1

receptor antagonists

INVENTOR(S): Hitchcock, Janice M.; Sorenson, Stephen M.; Dudley,

Mark W.; Peet, Norton P.

PATENT ASSIGNEE(S): Merrell Dow Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PAT | CENT | | | KIND DATE | | | | | | | CATI | ON N | 0. | DATE | | | | |
|------------|------|------|------|--------------|-----|------|------|-----|-----|------|--------|------|-----|------|------|-----|-----|----|
| WO | 9419 | 349 | | Α | 1 | 1994 | 0901 | | WC |) 19 | 94-U | S100 | 9 | 1994 | 0127 | | | |
| | | | | | | | | | | | | | | ES, | | | HU, | |
| | | | | | | | | | | | | | | NZ, | | | | |
| | | | SD, | | | | | | | | - | • | • | • | • | • | • | |
| | RW: | | | | | | | | | GR, | IE, | IT, | LU, | MC, | NL, | PT, | SE, | |
| | | | | | | | | | | | | | | TD, | | • | • | |
| CA | 2155 | | | | | | | | | | | | | | | | | |
| | 2155 | | | | | | | | | | | | | | | | | |
| ΑU | 9462 | 968 | | Α | 1 | 1994 | 0914 | | ΑU | J 19 | 94-6 | 2968 | | 1994 | 0127 | | | |
| ΑU | 6802 | 41 | | B | 2 | 1997 | 0724 | | | | | | | | | | | |
| EP | 6861 | 55 | | A | 1 | 1995 | 1213 | | E | 2 19 | 94-9 | 1066 | 1 | 1994 | 0127 | | | |
| EP | 6861 | 55 | | В | 1 | 1998 | 0729 | | | | | | | | | | | |
| | R: | ΑT, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | ΙE, | ΙT, | LI, | LU, | MC, | NL, | PT, | SE |
| CN | 1118 | 599 | | Α | | 1996 | 0313 | | Cl | J 19 | 94-1 | 9130 | 9 | 1994 | 0127 | | | |
| CN | 1041 | 418 | | В | | 1998 | 1230 | | | | | | | | | | | |
| | 7267 | | | | | 1996 | 0528 | | ж | J 19 | 95-2 | 495 | | 1994 | 0127 | | | |
| JP | 0851 | 2281 | | \mathbf{T} | 2 | 1996 | 1224 | | JI | 2 19 | 94-5 | 1898 | 6 | 1994 | 0127 | | | |
| | 1690 | | | | | 1998 | 0815 | | ΑT | 19 | 94-9 | 1066 | 1 | 1994 | 0127 | | | |
| | 2120 | | | | _ | 1998 | 1016 | | ES | 3 19 | 94-9 | 1066 | 1 | 1994 | 0127 | | | |
| | 9401 | | | | | | | | | | | | | 1994 | 0221 | | | |
| $_{ m IL}$ | 1087 | 50 | | A | 1 | 2000 | 0928 | | II | 19 ت | 94-1 | 0875 | 0 | 1994 | 0223 | | | |
| | 9503 | | | | | | | | NC | 19 | 95-3 | 353 | | 1995 | 0825 | | | |
| | 3119 | | | | | | | | | | | | | | | | | |
| US | 5840 | 729 | | Α | | 1998 | 1124 | | US | 19 | 95-5 | 0099 | 1 | 1995 | 1218 | | | |
| RITY | APP | LN. | INFO | .: | | | | | US | 19 | 93-2 | 3501 | | 1993 | 0226 | | | |
| | | | | | | | | | WC | 19 | 94 - U | S100 | 9 | 1994 | 0127 | | | |
| | | | | | | | | | | | | | | | | | | |

REFERENCE 2

ACCESSION NUMBER:

116:6578 CA

TITLE:

Preparation of 8-phenethyl- and 8-indon-2-yl-3,7dihydro-1H-purine-2,6-diones as selective adenosine

receptor agents

INVENTOR(S):

Peet, Norton P.; Lentz, Nelson L.

PATENT ASSIGNEE(S):

Merrell Dow Pharmaceuticals, Inc., USA

U.S., 15 pp. SOURCE:

CODEN: USXXAM

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| | | | | |
| US 5047534 | Α | 19910910 | US 1990-499111 | 19900326 |
| AU 9173537 | A1 | 19911003 | AU 1991-73537 | 19910319 |
| AU 632914 | B2 | 19930114 | | |
| ZA 9102038 | Α | 19911224 | ZA 1991-2038 | 19910319 |
| CA 2038747 | AA | 19910927 | CA 1991-2038747 | 19910321 |
| CA 2038747 | C | 20020528 | | |
| IL 97656 | A1 | 19960618 | IL 1991-97656 | 19910322 |
| FI 9101420 | Α | 19910927 | FI 1991-1420 | 19910325 |
| FI 98461 | В | 19970314 | | |

| FI | 98461 | (| 2 : | 199706 | 25 | | | |
|----------------------------------|---|--------|--|---|---|----------------------|--|--|
| NO | 9101200 | i | A : | 199109 | 27 | NO | 1991-1200 | 19910325 |
| NO | 177591 |] | 3 : | 199507 | 10 | | | |
| ИО | 177591 | (| 2 3 | 199510 | 18 | | | |
| HU | 56570 | 1 | 12 | 199109 | 30 | HU | 1991-985 | 19910325 |
| HU | 208824 |] | 3 : | 199401 | .28 | | | |
| EP | 449175 | i | 12 : | 199110 | 02 | EP | 1991-104668 | 19910325 |
| EP | 449175 | i | 43 : | 199301 | .20 | | | |
| ED | 449175 | 1 | 31 : | 199707 | 30 | | | |
| | 11747 | | | ,,,,,, | 50 | | | |
| <u> </u> | | | | | | GB, G | R, IT, LI, L | U, NL, SE |
| | | BE, CH | DE, | | S, FR, | • | R, IT, LI, L 1991-101892 | • |
| CN | R: AT, | BE, CH | DE, | DK, E | S, FR, | • | | • |
| CN CN | R: AT, 1055181 | BE, CH | DE, | DK, E | S, FR, 109 118 | ĊN | | • |
| CN CN AT | R: AT, 1055181 1032815 | BE, CH | DE, | DK, E 199110 199609 | S, FR, 009 018 015 | CN AT | 1991-101892 | 19910325 |
| CN CN AT ES | R: AT, 1055181 1032815 156130 | BE, CH | DE, A B E | DK, E 199110 199609 199708 | S, FR, 109 118 315 | CN AT ES | 1991-101892 1991-104668 | 19910325 19910325 |
| CN CN AT ES KR | R: AT, 1055181 1032815 156130 2107431 | BE, CH | DE, A B E T3 | DK, E 199110 199609 199708 | SS, FR, 109 118 115 101 1515 | CN AT ES KR | 1991-101892 1991-104668 1991-104668 | 19910325 19910325 19910325 |
| CN CN AT ES KR JP | R: AT, 1055181 1032815 156130 2107431 195368 | BE, CH | DE, A B B C C C 3 B 1 A 2 | DK, E 199110 199609 199708 199712 | S, FR, 009 218 315 301 515 | CN AT ES KR | 1991-101892 1991-104668 1991-104668 1991-4660 | 19910325 19910325 19910325 19910325 |

L20 ANSWER 136 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 137685-69-9 REGISTRY

ED Entered STN: 06 Dec 1991

CN 1H-Purine-2,6-dione, 3,7-dihydro-8-(1-phenylpropyl)-1,3-dipropyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H-Purine-2,6-dione, 3,7-dihydro-8-(1-phenylpropyl)-1,3-dipropyl-, (±)-

DR 131080-40-5

MF C20 H26 N4 O2

SR CA

LC STN Files: ADISINSIGHT, BEILSTEIN*, CA, CAPLUS, CASREACT, PROUSDDR, USPATFULL

(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 122:31546 CA

TITLE: Preparation of xanthine-derivative adenosine A1

receptor antagonists

INVENTOR(S): Hitchcock, Janice M.; Sorenson, Stephen M.; Dudley,

Mark W.; Peet, Norton P.

PATENT ASSIGNEE(S): Merrell Dow Pharmaceuticals, Inc., USA

SOURCE:

PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PAT | ENT | NO. | | KI | ND | DATE | | | | | CATI | | 0. | DATE | | | | |
|------|------|-----|------|-----|-----|------|------|-----|------------------|------|------|------|-----|------|------|-----|-----|----|
| WO | 9419 | 349 | | A: | 1 | 1994 | 0901 | | W | 0 19 | 94-U | S100 | 9 | 1994 | 0127 | | | |
| | | | | | | | | | | | | | | | FI, | | HU, | |
| | | JP, | KP, | KR, | ΚZ, | LK, | LU, | LV, | MG, | MN, | MW, | NL, | NO, | NZ, | PL, | PT, | RO, | |
| | | RU, | SD, | SE, | SK, | UA, | US, | UZ, | VN | | | | | | - | | | |
| | RW: | AT, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | ΙE, | IT, | LU, | MC, | NL, | PT, | SE, | |
| | | | | | | | | | | | | | | | TG | | | |
| CA | 2155 | 130 | | A | A | 1994 | 0901 | | C | A 19 | 94-2 | 1551 | 30 | 1994 | 0127 | | | |
| CA | 2155 | 130 | | С | | 1994 | 0901 | | | | | | | | | | | |
| AU | 9462 | 968 | | A: | 1 | 1994 | 0914 | | ΑI | J 19 | 94-6 | 2968 | | 1994 | 0127 | | | |
| | 6802 | | | | | | | | | | | | | | | | | |
| EΡ | 6861 | 55 | | A: | 1 | 1995 | 1213 | | E | P 19 | 94-9 | 1066 | 1 | 1994 | 0127 | | | |
| EΡ | 6861 | 55 | | B | 1 | 1998 | 0729 | | | | | | | | | | | |
| | R: | ΑT, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | ΙE, | IT, | LI, | LU, | MC, | NL, | PT, | SE |
| CN | 1118 | 599 | | A | | 1996 | 0313 | | Cl | N 19 | 94-1 | 9130 | 9 | 1994 | 0127 | | | |
| CN | 1041 | 418 | | В | | 1998 | 1230 | | | | | | | | | | | |
| HU | 7267 | 7 | | A: | 2 | 1996 | 0528 | | H | J 19 | 95-2 | 495 | | 1994 | 0127 | | | |
| | 0851 | | | | | 1996 | 1224 | | J | P 19 | 94-5 | 1898 | 6 | 1994 | 0127 | | | |
| | 1690 | | | | | | | | | | | | | 1994 | | | | |
| | 2120 | | | | | | | | | | | | | 1994 | | | | |
| zA | 9401 | 176 | | Α | | 1994 | 0920 | | \mathbf{z}_{i} | A 19 | 94-1 | 176 | | 1994 | 0221 | | | |
| | 1087 | | | | | | 0928 | | | և 19 | 94-1 | 0875 | 0 | 1994 | 0223 | | | |
| | 9503 | | | | | | 0825 | | N | 19 | 95-3 | 353 | | 1995 | 0825 | | | |
| ИО | 3119 | 20 | | B | 1 | 2002 | 0218 | | | | | | | | | | | |
| US | 5840 | 729 | | Α | | 1998 | 1124 | | | | | | | 1995 | | | | |
| RITY | APP | LN. | INFO | .: | | | | | U | 5 19 | 93-2 | 3501 | | 1993 | 0226 | | | |
| | | | | | | | | | W | O 19 | 94-U | S100 | 9 | 1994 | 0127 | | | |

REFERENCE 2

ACCESSION NUMBER:

120:106635 CA

TITLE:

Xanthines with C8 chiral substituents as potent and

selective adenosine A1 antagonists

AUTHOR(S):

Peet, Norton P.; Lentz, Nelsen L.; Dudley, Mark W.;

Ogden, Ann Marie L.; McCarty, Deborah R.; Racke,

Margaret M.

CORPORATE SOURCE:

Marion Merrell Dow Res. Inst., Cincinnati, OH, 45215,

USA

SOURCE:

Journal of Medicinal Chemistry (1993), 36(25), 4015-20

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE:

LANGUAGE:

Journal English

REFERENCE 3

ACCESSION NUMBER:

116:6578 CA

TITLE:

Preparation of 8-phenethyl- and 8-indon-2-yl-3,7dihydro-1H-purine-2,6-diones as selective adenosine

receptor agents

INVENTOR(S): PATENT ASSIGNEE(S):

Peet, Norton P.; Lentz, Nelson L. Merrell Dow Pharmaceuticals, Inc., USA SOURCE: U.S., 15 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------|--------|---------------|---|----------|
| | | | *************************************** | 10000336 |
| US 5047534 | | | US 1990-499111 | |
| AU 9173537 | | | AU 1991-73537 | 19910319 |
| | B2 | 19930114 | | |
| ZA 9102038 | | 19911224 | ZA 1991-2038 | |
| CA 2038747 | | | CA 1991-2038747 | 19910321 |
| | С | 20020528 | | |
| IL 97656 | | | IL 1991-97656 | |
| FI 9101420 | | 19910927 | FI 1991-1420 | 19910325 |
| FI 98461 | В | 19970314 | | |
| FI 98461 | С | 19970625 | | |
| NO 9101200 | Α | 19910927 | NO 1991-1200 | 19910325 |
| NO 177591 | В | 19950710 | | |
| NO 177591 | C | 19951018 | | |
| HU 56570 | A2 | 19910930 | HU 1991-985 | 19910325 |
| HU 208824 | В | 19940128 | | |
| EP 449175 | A2 | 19911002 | EP 1991-104668 | 19910325 |
| EP 449175 | A3 | 19930120 | | |
| EP 449175 | B1 | 19970730 | | |
| R: AT, BE, | CH, DE | , DK, ES, FR, | GB, GR, IT, LI, LU | , NL, SE |
| CN 1055181 | Α | 19911009 | CN 1991-101892 | 19910325 |
| CN 1032815 | В | 19960918 | | |
| AT 156130 | | 19970815 | AT 1991-104668 | 19910325 |
| ES 2107431 | Т3 | 19971201 | ES 1991-104668 | 19910325 |
| | B1 | 19990615 | KR 1991-4660 | 19910325 |
| | A2 | 19920811 | JP 1991-84512 | 19910326 |
| | В2 | 20010703 | | |
| PRIORITY APPLN. INFO. | : | | US 1990-499111 | 19900326 |

REFERENCE 4

ACCESSION NUMBER: 114:61823 CA

TITLE: 8-(Dicyclopropylmethyl)-1,3-dipropylxanthine: a potent and selective adenosine A1 antagonist with

renal protective and diuretic activities

AUTHOR(S): Shimada, Junichi; Suzuki, Fumio; Nonaka, Hiromi;

Karasawa, Akira; Mizumoto, Hideaki; Ohno, Tetsuji;

Kubo, Kazuhiro; Ishii, Akio

CORPORATE SOURCE: Pharm. Res. Lab., Kyowa Hakko Kogyo Co., Ltd., Sunto,

411, Japan

SOURCE: Journal of Medicinal Chemistry (1991), 34(1), 466-9

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal LANGUAGE: English

L20 ANSWER 137 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 137685-66-6 REGISTRY

ED Entered STN: 06 Dec 1991

CN 1H-Purine-2,6-dione, 3,7-dihydro-8-(1-phenylethyl)-1,3-dipropyl- (9CI)

(CA INDEX NAME)

FS 3D CONCORD

DR 152884-17-8 MF C19 H24 N4 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

$$\begin{array}{c|c} & & \text{Ph} & & \text{Ph} \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

122:31546 CA

TITLE:

Preparation of xanthine-derivative adenosine Al

receptor antagonists

INVENTOR(S):

Hitchcock, Janice M.; Sorenson, Stephen M.; Dudley,

Mark W.; Peet, Norton P.

PATENT ASSIGNEE(S):

Merrell Dow Pharmaceuticals, Inc., USA

SOURCE:

PCT Int. Appl., 62 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

| PATENT NO. KIND DATE | | | | | | APPLICATION NO. | |
|----------------------|----------|--|------------|-----------|--|--------------------|----------------------|
| WO. | 9419349 | | A1 | 19940901 | | WO 1994-US1009 | |
| ,,, | | | | | | CH, CN, CZ, DE, DK | |
| | | | | | | MG, MN, MW, NL, NO | |
| | | | | , UA, US, | | | |
| | | | • | | | GB, GR, IE, IT, LU | |
| | | | | | | GN, ML, MR, NE, SN | |
| CA | 2155130 | | AA | 19940901 | | CA 1994-2155130 | 19940127 |
| CA | 2155130 | | С | 19940901 | | | |
| | | | | | | AU 1994-62968 | 19940127 |
| AU | 680241 | | B2 | 19970724 | | | |
| | | | | | | EP 1994-910661 | 19940127 |
| | | | | 19980729 | | | |
| | | | | | | | , LU, MC, NL, PT, SE |
| | | | | | | CN 1994-191309 | 19940127 |
| | | | | 19981230 | | | |
| HU | 72677 | | A2 | 19960528 | | HU 1995-2495 | 19940127 |
| JP | 08512281 | | T2 | 19961224 | | JP 1994-518986 | 19940127 |
| AT | 169019 | | E | 19980815 | | AT 1994-910661 | 19940127 |
| ES | 2120025 | | T 3 | 19981016 | | ES 1994-910661 | 19940127 |
| ZA | 9401176 | | Α | 19940920 | | ZA 1994-1176 | 19940221 |

| IL 10875 | 0 | A1 | 20000928 | IL | 1994-108750 | 19940223 |
|---------------|-----------|----|----------|----|-------------|----------|
| NO 95033 | 53 | A | 19950825 | NO | 1995-3353 | 19950825 |
| NO 31192 | 0 | B1 | 20020218 | | | |
| US 58407 | 29 | A | 19981124 | US | 1995-500991 | 19951218 |
| PRIORITY APPL | N. INFO.: | | | US | 1993-23501 | 19930226 |
| | | | | WO | 1994-US1009 | 19940127 |

REFERENCE 2

ACCESSION NUMBER: 120:106635 CA

TITLE: Xanthines with C8 chiral substituents as potent and

selective adenosine Al antagonists

AUTHOR(S): Peet, Norton P.; Lentz, Nelsen L.; Dudley, Mark W.;

Ogden, Ann Marie L.; McCarty, Deborah R.; Racke,

Margaret M.

CORPORATE SOURCE: Marion Merrell Dow Res. Inst., Cincinnati, OH, 45215,

USA

SOURCE: Journal of Medicinal Chemistry (1993), 36(25), 4015-20

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE 3

ACCESSION NUMBER: 116:6578 CA

TITLE: Preparation of 8-phenethyl- and 8-indon-2-yl-3,7-

dihydro-1H-purine-2,6-diones as selective adenosine

receptor agents

INVENTOR(S): Peet, Norton P.; Lentz, Nelson L.

PATENT ASSIGNEE(S): Merrell Dow Pharmaceuticals, Inc., USA

SOURCE: U.S., 15 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: Facelie English

FAMILY ACC. NUM. COUNT: 1

| PAT | TENT NO. | KII | ND DATE | APPLICATION NO. DATE |
|-----|----------|---------|-------------|--------------------------------|
| US | 5047534 | A | 19910910 | US 1990-499111 19900326 |
| | 9173537 | A: | | |
| | 632914 | B | 2 19930114 | |
| ZA | 9102038 | А | 19911224 | ZA 1991-2038 19910319 |
| CA | 2038747 | A | A 19910927 | CA 1991-2038747 19910321 |
| CA | 2038747 | C | 20020528 | |
| IL | 97656 | A: | 1 19960618 | IL 1991-97656 19910322 |
| FΙ | 9101420 | А | 19910927 | FI 1991-1420 19910325 |
| FI | 98461 | В | 19970314 | |
| FΙ | 98461 | C | 19970625 | |
| NO | 9101200 | A | 19910927 | NO 1991-1200 19910325 |
| NO | 177591 | В | 19950710 | |
| NO | 177591 | C | 19951018 | |
| HU | 56570 | A: | 2 19910930 | HU 1991-985 19910325 |
| HU | 208824 | В | 19940128 | • |
| ΕP | 449175 | A2 | 2 19911002 | EP 1991-104668 19910325 |
| EP | 449175 | A: | 3 19930120 | |
| EP | 449175 | B: | 1 19970730 | |
| | R: AT, | BE, CH, | DE, DK, ES, | FR, GB, GR, IT, LI, LU, NL, SE |
| CN | 1055181 | Α | 19911009 | CN 1991-101892 19910325 |

CN 1032815 19960918 В AT 156130 E 19970815 AT 1991-104668 19910325 ES 1991-104668 ES 2107431 Т3 19971201 19910325 KR 1991-4660 KR 195368 19990615 В1 19910325 JP 1991-84512 A2 19920811 JP 04221384 19910326 JP 3181305 B2 20010703 PRIORITY APPLN. INFO.: US 1990-499111 19900326

L20 ANSWER 138 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 137685-65-5 REGISTRY

ED Entered STN: 06 Dec 1991

CN 1H-Purine-2,6-dione, 3,7-dihydro-8-(1-phenylethyl)-1,3-di-2-propenyl-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C19 H20 N4 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 122:31546 CA

TITLE: Preparation of xanthine-derivative adenosine A1

receptor antagonists

INVENTOR(S): Hitchcock, Janice M.; Sorenson, Stephen M.; Dudley,

Mark W.; Peet, Norton P.

PATENT ASSIGNEE(S): Merrell Dow Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

| PAT | ENT 1 | NO. | | KI | ND : | DATE | | | A: | PPLI | CATI | ON NO | ο. | DATE | | | |
|-----|-------|-----|-----|-----|------|------|------|-----|-----|------|------|-------|-----|------|------|-----|-----|
| | | : | | | | | | | - | | | | | | | | |
| WO | 9419 | 349 | | A. | 1 | 1994 | 0901 | | W | 19 | 94-U | S100 | 9 | 1994 | 0127 | | |
| | W: | ΑT, | AU, | BB, | BG, | BR, | BY, | CA, | CH, | CN, | CZ, | DE, | DK, | ES, | FI, | GB, | HU, |
| | | JP, | ΚP, | KR, | ΚZ, | LK, | LU, | LV, | MG, | MN, | MW, | NL, | NO, | NZ, | PL, | PT, | RO, |
| | | RU, | SD, | SE, | SK, | UA, | US, | UΖ, | VN | | | | | | | | |
| | RW: | AT, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | ΙE, | IT, | LU, | MC, | NL, | PŢ, | SE, |
| | • | | | | | | | | | | | | | TD, | | | |
| CA | 2155 | 130 | | A | A. | 1994 | 0901 | | C | A 19 | 94-2 | 1551 | 30 | 1994 | 0127 | | |

| CA | 2155130 | С | 19940901 | | | |
|----------|---------------|------------|-----------|-----|---------------------|--------------------|
| AU | 9462968 | A1 | 19940914 | | AU 1994-62968 | 19940127 |
| AU | 680241 | B2 | 19970724 | | | |
| EP | 686155 | A1 | 19951213 | | EP 1994-910661 | 19940127 |
| EP | 686155 | B1 | 19980729 | | | |
| | R: AT, BE, C | H, DE | , DK, ES, | FR, | GB, GR, IE, IT, LI, | LU, MC, NL, PT, SE |
| CN | 1118599 | Α | 19960313 | | CN 1994-191309 | 19940127 |
| CN | 1041418 | В | 19981230 | | | |
| HU | 72677 | A2 | 19960528 | | HU 1995-2495 | 19940127 |
| JP | 08512281 | T 2 | 19961224 | | JP 1994-518986 | 19940127 |
| AT | 169019 | E | 19980815 | | AT 1994-910661 | 19940127 |
| ES | 2120025 | Т3 | 19981016 | | ES 1994-910661 | 19940127 |
| ZA | 9401176 | Α | 19940920 | | ZA 1994-1176 | 19940221 |
| IL | 108750 | A1 | 20000928 | | IL 1994-108750 | 19940223 |
| NO | 9503353 | A | 19950825 | | NO 1995-3353 | 19950825 |
| NO | 311920 | B1 | 20020218 | | | |
| US | 5840729 | Α | 19981124 | | US 1995-500991 | 19951218 |
| PRIORITY | APPLN. INFO.: | | | | US 1993-23501 | 19930226 |
| | | | | | WO 1994-US1009 | 19940127 |

REFERENCE 2

ACCESSION NUMBER:

116:6578 CA

TITLE:

Preparation of 8-phenethyl- and 8-indon-2-yl-3,7-dihydro-1H-purine-2,6-diones as selective adenosine

receptor agents

INVENTOR(S):

Peet, Norton P.; Lentz, Nelson L.

PATENT ASSIGNEE(S):

Merrell Dow Pharmaceuticals, Inc., USA

SOURCE:

U.S., 15 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

| | | DATE | APPLICATION NO. | DATE |
|------------|--------|-----------------|-------------------|----------|
| US 5047534 | | | US 1990-499111 | 19900326 |
| | | | AU 1991-73537 | |
| AU 632914 | B2 | 19930114 | | |
| ZA 9102038 | Α | 19911224 | ZA 1991-2038 | 19910319 |
| CA 2038747 | | | CA 1991-2038747 | 19910321 |
| CA 2038747 | | | | |
| | | | IL 1991-97656 | |
| | | | FI 1991-1420 | 19910325 |
| FI 98461 | В | 19970314 | | |
| FI 98461 | | | | |
| | | | NO 1991-1200 | 19910325 |
| NO 177591 | | | | |
| NO 177591 | | | | |
| HU 56570 | | | HU 1991-985 | 19910325 |
| HU 208824 | | 19940128 | | |
| EP 449175 | | | EP 1991-104668 | 19910325 |
| EP 449175 | | | | |
| EP 449175 | | | n an | cm |
| R: AT, BE, | CH, DE | , DK, ES, FR, G | B, GR, IT, LI, LU | , NL, SE |
| CN 1055181 | A | 19911009 | CN 1991-101892 | 19910325 |
| CN 1032815 | B | 19960918 | T. 1001 104655 | 10010205 |
| AT 156130 | E | 199/0812 | AT 1991-104668 | 19910325 |

Т3 19971201 ES 1991-104668 ES 2107431 19910325 19990615 KR 1991-4660 KR 195368 В1 19910325 JP 1991-84512 JP 04221384 A2 19920811 19910326 20010703 JP 3181305 В2 PRIORITY APPLN. INFO.: US 1990-499111 19900326

L20 ANSWER 139 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN137685-64-4 REGISTRY

Entered STN: 06 Dec 1991 ED

1H-Purine-2,6-dione, 3,7-dihydro-8-[1-(phenylmethyl)butyl]-1,3-dipropyl-CN (9CI) (CA INDEX NAME)

3D CONCORD FS

152772-69-5 DR

C22 H30 N4 O2 MF

SR

CA, CAPLUS, CASREACT, USPATFULL LCSTN Files:

$$\begin{array}{c|c}
 & \text{N-Pr} & \text{CH}_2\text{-Ph} \\
 & \text{CH-Pr-n} \\
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 & \text{N-Pr} \\
 & \text{O}
\end{array}$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

122:31546 CA

TITLE:

Preparation of xanthine-derivative adenosine Al

receptor antagonists

INVENTOR(S):

Hitchcock, Janice M.; Sorenson, Stephen M.; Dudley,

Mark W.; Peet, Norton P.

PATENT ASSIGNEE(S):

Merrell Dow Pharmaceuticals, Inc., USA

SOURCE:

PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

| PATENT N | KIND | DATE | | | APPLICATION NO. DATE | | | | | | | | | | | |
|----------|--------|------|------------|--------|----------------------|-----|-----|------|---------------|------|-----|------|------|-----|-----|--|
| | | | | | | | | | | | | | | | | |
| WO 94193 | 49 | | A 1 | 1994 | 0901 | | Mo | 0 19 | 94 - U | S100 | 9 | 1994 | 0127 | | | |
| W: . | AT, A | J, B | В, в | BR, | BY, | CA, | CH, | CN, | CZ, | DE, | DK, | ES, | FI, | GB, | HU, | |
| | JP, K | P, K | R, K | , LK, | LU, | LV, | MG, | MN, | MW, | NL, | NO, | NZ, | PL, | PT, | RO, | |
| | RU, SI | o, s | E, SI | C, UA, | US, | UΖ, | VN | | | | | | | | | |
| RW: | AT, B | E, C | H, DI | , DK, | ES, | FR, | GB, | GR, | ΙE, | IT, | LU, | MC, | NL, | PT, | SE, | |
| | BF, B | J, C | F, C | , CI, | CM, | GΑ, | GN, | ML, | MR, | ΝE, | SN, | TD, | TG | | | |
| CA 21551 | 30 | | AA | 1994 | 0901 | | C | A 19 | 94-2 | 1551 | 30 | 1994 | 0127 | | | |
| CA 21551 | 30 | | C | 1994 | 0901 | | | | | | | | | | | |

| AU | 9462968 | A1 | 19940914 | | AU 1994-62968 | 19940127 | |
|---------|-----------------|-------|-----------|-----|---------------------|---------------|--------|
| AU | 680241 | B2 | 19970724 | | | | |
| EP | 686155 | A1 | 19951213 | | EP 1994-910661 | 19940127 | |
| EP | 686155 | B1 | 19980729 | | | | |
| | R: AT, BE, C | H, DE | , DK, ES, | FR, | GB, GR, IE, IT, LI, | , LU, MC, NL, | PT, SE |
| CN | 1118599 | Α | 19960313 | | CN 1994-191309 | 19940127 | |
| CN | 1041418 | В | 19981230 | | | | |
| HU | 72677 | A2 | 19960528 | | HU 1995-2495 | 19940127 | |
| JP | 08512281 | T2 | 19961224 | | JP 1994-518986 | 19940127 | |
| AT | 169019 | E | 19980815 | | AT 1994-910661 | 19940127 | |
| ES | 2120025 | Т3 | 19981016 | | ES 1994-910661 | 19940127 | |
| ZA | 9401176 | Α | 19940920 | | ZA 1994-1176 | 19940221 | |
| IL | 108750 | A1 | 20000928 | | IL 1994-108750 | 19940223 | |
| NO | 9503353 | Α | 19950825 | | NO 1995-3353 | 19950825 | |
| NO | 311920 | В1 | 20020218 | | | | |
| US | 5840729 | Α | 19981124 | | US 1995-500991 | 19951218 | |
| PRIORIT | Y APPLN. INFO.: | | | | US 1993-23501 | 19930226 | |
| | | | | | WO 1994-US1009 | 19940127 | |

REFERENCE 2

ACCESSION NUMBER: 120:106635 CA

TITLE: Xanthines with C8 chiral substituents as potent and

selective adenosine Al antagonists

AUTHOR(S): Peet, Norton P.; Lentz, Nelsen L.; Dudley, Mark W.;

Ogden, Ann Marie L.; McCarty, Deborah R.; Racke,

Margaret M.

CORPORATE SOURCE: Marion Merrell Dow Res. Inst., Cincinnati, OH, 45215,

USA

SOURCE: Journal of Medicinal Chemistry (1993), 36(25), 4015-20

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE 3

ACCESSION NUMBER: 116:6578 CA

TITLE: Preparation of 8-phenethyl- and 8-indon-2-yl-3,7-

dihydro-1H-purine-2,6-diones as selective adenosine

receptor agents

INVENTOR(S): Peet, Norton P.; Lentz, Nelson L.

PATENT ASSIGNEE(S): Merrell Dow Pharmaceuticals, Inc., USA

SOURCE: U.S., 15 pp.

CODEN: USXXAM DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| | | | | |
| US 5047534 | Α | 19910910 | US 1990-499111 | 19900326 |
| AU 9173537 | A1 | 19911003 | AU 1991-73537 | 19910319 |
| AU 632914 | B2 | 19930114 | | |
| ZA 9102038 | Α | 19911224 | ZA 1991-2038 | 19910319 |
| CA 2038747 | AA | 19910927 | CA 1991-2038747 | 19910321 |
| CA 2038747 | C | 20020528 | | |
| IL 97656 | A1 | 19960618 | IL 1991-97656 | 19910322 |
| FI 9101420 | Α | 19910927 | FI 1991-1420 | 19910325 |

| FI | 98461 | I | 3 1 | 9970 | 314 | | | | |
|----------|----------|--------|------|------|------|-----|-------|-------------|------------|
| FI | 98461 | (| : 1 | 9970 | 625 | | | | |
| NO | 9101200 | 1 | 1 | 9910 | 927 | | NO | 1991-1200 | 19910325 |
| NO | 177591 | I | 3 1 | 9950 | 710 | | | | |
| NO | 177591 | (| : 1 | 9951 | 018 | | | | |
| HU | 56570 | 1 | 1 1 | 9910 | 930 | | HU | 1991-985 | 19910325 |
| HU | 208824 | I | 3 1 | 9940 | 128 | | | | |
| EP | 449175 | I | 1 1 | 9911 | .002 | | EP | 1991-104668 | 19910325 |
| EP | 449175 | 1 | 13 1 | 9930 | 120 | | | | |
| EP | 449175 | I | 31 1 | 9970 | 730 | | | | |
| | R: AT, | BE, CH | DE, | DK, | ES, | FR, | GB, (| GR, IT, LI, | LU, NL, SE |
| CN | 1055181 | Ī | 1 | 9911 | .009 | | CN | 1991-101892 | 19910325 |
| CN | 1032815 | 3 | 3 1 | 9960 | 918 | | | | |
| AT | 156130 |] | 1 | 9970 | 815 | | AT | 1991-104668 | 3 19910325 |
| ES | 2107431 | 5 | 3 1 | 9971 | 201 | | ES | 1991-104668 | 3 19910325 |
| KR | 195368 | I | 31 1 | 9990 | 615 | | KR | 1991-4660 | 19910325 |
| JP | 04221384 | i | 12 1 | 9920 | 811 | | JP | 1991-84512 | 19910326 |
| JP | 3181305 |] | 32 2 | 0010 | 703 | | | | |
| PRIORITY | APPLN. | INFO.: | | | | | ŲS | 1990-499111 | 19900326 |

L20 ANSWER 140 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 137685-63-3 REGISTRY

ED Entered STN: 06 Dec 1991

CN 1H-Purine-2,6-dione, 3,7-dihydro-8-(1-phenylethyl)-1,3-dipropyl-, (R)-(9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C19 H24 N4 O2

SR CA

LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 12

122:31546 CA

TITLE:

Preparation of xanthine-derivative adenosine Al

receptor antagonists

INVENTOR(S):

Hitchcock, Janice M.; Sorenson, Stephen M.; Dudley,

Mark W.; Peet, Norton P.

PATENT ASSIGNEE(S):

Merrell Dow Pharmaceuticals, Inc., USA

SOURCE:

PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE: Patent English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| | | T NO. KIND DATE APPLIC | | | | | | | | | DATE | | | | | | | |
|-------|-------|------------------------|------|-----|-----|------|------|-----|-----|------|--------|------|-----|------|------|-----|-----|----|
| | 9419 | | | | | | | | | | | | | 1994 | 0127 | | | |
| | W: | ΑT, | ΑU, | BB, | BG, | BR, | BY, | CA, | CH, | CN, | CZ, | DE, | DK, | ES, | FI, | GB, | HU, | |
| | | JP, | ΚP, | KR, | ΚZ, | LK, | LU, | LV, | MG, | MN, | MW, | ΝL, | NO, | NZ, | ΡL, | PT, | RO, | |
| | | RU, | SD, | SE, | SK, | UA, | ŲS, | UZ, | VN | | | | | | | | | |
| | RW: | AT, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | ΙE, | IT, | LU, | MC, | NL, | PT, | SE, | |
| | | | | | | CI, | | | | | | | | | | | | |
| CA | 2155 | 130 | | A | A | 1994 | 0901 | | C | A 19 | 94-2 | 1551 | 30 | 1994 | 0127 | | | |
| CA | 2155 | 130 | | C | | 1994 | 0901 | | | | | | | | | | | |
| AU | 9462 | 968 | | A | 1 | 1994 | 0914 | | A | J 19 | 94-6 | 2968 | | 1994 | 0127 | | | |
| | 6802 | | | | | | | | | | | | | | | | | |
| | 6861 | | | | | | | | E. | P 19 | 94 - 9 | 1066 | 1 | 1994 | 0127 | | | |
| EP | 6861 | 55 | | В | 1 | 1998 | 0729 | | | | | | | | | | | |
| | | | | | | DK, | | | | | | | | | | ΝL, | PT, | SE |
| CN | 1118 | 599 | | Α | | 1996 | 0313 | | C1 | N 19 | 94-1 | 9130 | 9 | 1994 | 0127 | | | |
| | 1041 | | | | | | | | | | | | | | | | | |
| HU | 7267 | 7 | | A | 2 | 1996 | 0528 | | H | J 19 | 95-2 | 495 | | 1994 | 0127 | | | |
| | 0851 | | | | | | | | | | | | | | | | | |
| AT | 1690 | 19 | | Ε | | 1998 | 0815 | | A' | Г 19 | 94-9 | 1066 | 1 | | | | | |
| | 2120 | | | | | | | | | | | | | | 0127 | | | |
| | 9401 | | | | | | | | | | | | | | | | | |
| | 1087 | | | | | | | | | | | | | | | | | |
| | 9503 | | | | | | | | N |) 19 | 95-3 | 353 | | 1995 | 0825 | | | |
| | 3119 | | | | | | | | | | | | | | | | | |
| | 5840 | | | | | | | | | | | | | | | | | |
| IORIT | Y APP | LN. | INFO | .: | | | | | | | | | | | 0226 | | | |
| | | | | | | | | | W |) 19 | 94 - U | S100 | 9 | 1994 | 0127 | | | |
| | | | | | | | | | | | | | | | | | | |

REFERENCE 2

ACCESSION NUMBER: 120:106635 CA

TITLE: Xanthines with C8 chiral substituents as potent and

selective adenosine A1 antagonists

AUTHOR(S): Peet, Norton P.; Lentz, Nelsen L.; Dudley, Mark W.;

Ogden, Ann Marie L.; McCarty, Deborah R.; Racke,

Margaret M.

CORPORATE SOURCE: Marion Merrell Dow Res. Inst., Cincinnati, OH, 45215,

USA

SOURCE: Journal of Medicinal Chemistry (1993), 36(25), 4015-20

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE 3

ACCESSION NUMBER: 116:6578 CA

TITLE: Preparation of 8-phenethyl- and 8-indon-2-yl-3,7-

dihydro-1H-purine-2,6-diones as selective adenosine

receptor agents

INVENTOR(S): Peet, Norton P.; Lentz, Nelson L.

PATENT ASSIGNEE(S): Merrell Dow Pharmaceuticals, Inc., USA

SOURCE: U.S., 15 pp.
CODEN: USXXAM

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------|------------|----------|-----------------------|----------|
| | | | | |
| US 5047534 | Α | 19910910 | US 1990-499111 | 19900326 |
| | | | AU 1991-73537 | 19910319 |
| AU 632914 | B2 | 19930114 | | |
| ZA 9102038 | | 19911224 | ZA 1991-2038 | 19910319 |
| CA 2038747 | AA | 19910927 | CA 1991-2038747 | 19910321 |
| CA 2038747 | C | 20020528 | | |
| IL 97656 | A 1 | | IL 1991-97656 | |
| FI 9101420 | Α | | FI 1991-1420 | 19910325 |
| FI 98461 | В | 19970314 | | |
| FI 98461 | C | 19970625 | | |
| | | | NO 1991-1200 | 19910325 |
| NO 177591 | В | 19950710 | | |
| NO 177591 | | 19951018 | | |
| HU 56570 | A2 | 19910930 | HU 1991-985 | 19910325 |
| | В | | | |
| EP 449175 | A2 | 19911002 | EP 1991-104668 | 19910325 |
| EP 449175 | A3 | 19930120 | | |
| EP 449175 | B1 | 19970730 | | |
| | • | | R, GB, GR, IT, LI, LU | , NL, SE |
| CN 1055181 | Α | 19911009 | CN 1991-101892 | 19910325 |
| CN 1032815 | В | 19960918 | | |
| AT 156130 | E | 19970815 | AT 1991-104668 | |
| ES 2107431 | Т3 | 19971201 | ES 1991-104668 | 19910325 |
| | | 19990615 | KR 1991-4660 | 19910325 |
| JP 04221384 | A2 | 19920811 | JP 1991-84512 | 19910326 |
| JP 3181305 | B2 | 20010703 | | |
| PRIORITY APPLN. INFO | .: | | US 1990-499111 | 19900326 |

L20 ANSWER 141 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN

ED

136420-19-4 REGISTRY
Entered STN: 28 Sep 1991
1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-(4-phenylbutyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C17 H20 N4 O2

SR

LCSTN Files: CA, CAPLUS

Me N
$$(CH_2)_4 - Ph$$

Me Me

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 115:182959 CA

TITLE: Preparation of xanthine derivatives as angiotensin II

antagonists

INVENTOR(S): Morimoto, Akira; Nishikawa, Kohei

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: Eur. Pat. Appl., 38 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------|--------|---------------|--------------------|----------|
| | | | | |
| EP 430300 | A2 | 19910605 | EP 1990-123013 | 19901130 |
| EP 430300 | A3 | 19920325 | | |
| R: AT, BE, | CH, DE | , DK, ES, FR, | GB, GR, IT, LI, LU | , NL, SE |
| JP 03223284 | A2 | 19911002 | JP 1990-338861 | 19901130 |
| CA 2031328 | AA | 19910602 | CA 1990-2031328 | 19901203 |
| PRIORITY APPLN. INFO | .: | | JP 1989-313918 | 19891201 |

L20 ANSWER 142 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 136420-17-2 REGISTRY

ED Entered STN: 28 Sep 1991

CN 1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-(3-phenylpropyl)- (9CI)

(CA INDEX NAME)

FS 3D CONCORD

MF C16 H18 N4 O2

SR CA

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 115:182959 CA

TITLE: Preparation of xanthine derivatives as angiotensin II

antagonists

INVENTOR(S): Morimoto, Akira; Nishikawa, Kohei

PATENT ASSIGNEE(S):

Takeda Chemical Industries, Ltd., Japan

SOURCE:

Eur. Pat. Appl., 38 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------|--------|---------------|--------------------|----------|
| | | | | |
| EP 430300 | A2 | 19910605 | EP 1990-123013 | 19901130 |
| EP 430300 | A3 | 19920325 | | • |
| R: AT, BE, | CH, DE | , DK, ES, FR, | GB, GR, IT, LI, LU | , NL, SE |
| JP 03223284 | A2 | 19911002 | JP 1990-338861 | 19901130 |
| CA 2031328 | AA | 19910602 | CA 1990-2031328 | 19901203 |
| PRIORITY APPLN. INFO | . : | | JP 1989-313918 | 19891201 |

L20 ANSWER 143 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

136199-01-4 REGISTRY RN

ED Entered STN: 20 Sep 1991

1H-Purine-2,6-dione, 8-[(2-amino-4-thiazolyl)methyl]-3,7-dihydro-1,3-CNdipropyl- (9CI) (CA INDEX NAME)

3D CONCORD FS

C15 H20 N6 O2 S MF

SR

STN Files: CA, CAPLUS, USPATFULL LC

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

121:300909 CA

TITLE:

Xanthine derivatives

INVENTOR(S):

Suzuki, Fumio; Shimada, Junichi; Ishii, Akio; Ohno, Tetsuji; Karasawa, Akira; Kubo, Kazuhiro; Nonaka,

Hiromi

PATENT ASSIGNEE(S):

Kyowa Hakko Kogyo Co., Ltd., Japan

SOURCE:

U.S., 22 pp. Cont.-in-part of U.S. Ser No. 574,447,

abandoned. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--------------------|-------|--------------|-----------------|----------|
| | | - | | |
| US 5290782 | Α | 19940301 | US 1992-839690 | 19920224 |
| US 5525607 | Α | 19960611 | US 1993-63684 | 19930520 |
| PRIORITY APPLN. IN | IFO.: | | JP 1989-226642 | 19890901 |
| | | | US 1990-574447 | 19900829 |
| | | | JP 1991-29796 | 19910225 |
| | | | US 1992-839690 | 19920224 |

REFERENCE 2

ACCESSION NUMBER:

115:158836 CA

TITLE:

Preparation and formulation of 8-

(polycycloalkyl) xanthines and analogs as adenosine A1

receptor antagonists

INVENTOR (S):

Suzuki, Fumio; Shimada, Junichi; Ishii, Akio; Ohno, Tetsuji; Karasawa, Akira; Kubo, Kazuhiro; Nonaka,

Hiromi

PATENT ASSIGNEE(S):

Kyowa Hakko Kogyo Co., Ltd., Japan

SOURCE:

Eur. Pat. Appl., 45 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------------|--------|---------------|--------------------|----------|
| | | | | |
| EP 415456 | A2 | 19910306 | EP 1990-116791 | 19900831 |
| EP 415456 | A3 | 19910529 | | |
| EP 415456 | B1 | 19960626 | | |
| R: AT, BE, | CH, DE | , DK, ES, FR, | GB, GR, IT, LI, LU | , NL, SE |
| JP 03173889 | A2 | 19910729 | JP 1990-228941 | 19900830 |
| JP 06102662 | B4 | 19941214 | | |
| CA 2024381 | AA | 19910302 | CA 1990-2024381 | 19900831 |
| CA 2024381 | C | 19970107 | | |
| AT 139778 | E | 19960715 | AT 1990-116791 | 19900831 |
| ES 2091212 | Т3 | 19961101 | ES 1990-116791 | 19900831 |
| PRIORITY APPLN. INFO | .: | | JP 1989-226642 | 19890901 |

L20 ANSWER 144 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN

136198-97-5 REGISTRY Entered STN: 20 Sep 1991 ED

1H-Purine-2,6-dione, 3,7-dihydro-8-[1-methyl-2-(2-methyl-4-CN thiazolyl)ethyl]-1,3-dipropyl- (9CI) (CA INDEX NAME)

3D CONCORD FS

C18 H25 N5 O2 S MF

SR

STN Files: CA, CAPLUS, USPATFULL LC

$$\begin{array}{c|c} n\text{-}\text{Pr} & Me \\ N & CH - CH_2 \\ \hline N & N \\ \hline \end{array}$$
 Me
$$\begin{array}{c|c} N & Me \\ \hline N & S \\ \end{array}$$

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

121:300909 CA

TITLE:

Xanthine derivatives

INVENTOR (S):

Suzuki, Fumio; Shimada, Junichi; Ishii, Akio; Ohno, Tetsuji; Karasawa, Akira; Kubo, Kazuhiro; Nonaka,

Hiromi

PATENT ASSIGNEE(S):

Kyowa Hakko Kogyo Co., Ltd., Japan

SOURCE:

U.S., 22 pp. Cont.-in-part of U.S. Ser No. 574,447,

abandoned. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. DATE | |
|-------------------|--------|----------|-----------------------|----|
| | | | | |
| US 5290782 | A | 19940301 | US 1992-839690 199202 | 24 |
| US 5525607 | Α | 19960611 | US 1993-63684 199305 | 20 |
| PRIORITY APPLN. 3 | [NFO.: | | JP 1989-226642 198909 | 01 |
| | | | US 1990-574447 199008 | 29 |
| | | | JP 1991-29796 199102 | 25 |
| | | | US 1992-839690 199202 | 24 |

REFERENCE 2

ACCESSION NUMBER:

115:158836 CA

TITLE:

Preparation and formulation of 8-

(polycycloalkyl) xanthines and analogs as adenosine A1

receptor antagonists

INVENTOR (S):

Suzuki, Fumio; Shimada, Junichi; Ishii, Akio; Ohno,

Tetsuji; Karasawa, Akira; Kubo, Kazuhiro; Nonaka,

Hiromi

PATENT ASSIGNEE(S):

Kyowa Hakko Kogyo Co., Ltd., Japan

SOURCE:

Eur. Pat. Appl., 45 pp.

DOCUMENT TYPE:

CODEN: EPXXDW

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

| EP | 41545 | 5 | | A2 | 2 1991 | .0306 | | EP | 199 | 0-11 | L679: | 1 | 19900 | 831 |
|---------|--------|-------|------|-----|---------|-------|-----|-----|-------|------|-------|-----------|-------|------|
| EP | 41545 | 5 | | A3 | 3 1991 | 0529 | | | | | | | | |
| EP | 41545 | 5 | | В1 | 1996 | 0626 | | | | | | | | |
| | R: 2 | AT, I | ΒE, | CH, | DE, DK, | ES, | FR, | GB, | GR, | IT, | LI, | LU, | NL, | SE |
| JP | 03173 | 889 | | A2 | 2 1991 | .0729 | | JP | 199 | 0-22 | 2894 | 1 | 19900 | 0830 |
| JP | 06102 | 562 | | B4 | 1994 | 1214 | | | | | | | | |
| CA | 20243 | 31 | | AA | A 1991 | .0302 | | CA | . 199 | 0-20 | 2438 | 31 | 19900 | 831 |
| CA | 20243 | 31 | | С | 1997 | 0107 | | | | | | | | |
| AT | 13977 | В | | E | 1996 | 0715 | | ΑT | 199 | 0-11 | 1679: | 1 | 19900 | 831 |
| ES | 20912 | 12 | | Т3 | 3 1996 | 1101 | | ES | 199 | 0-11 | 1679 | 1 | 19900 | 831 |
| PRIORIT | Y APPL | 1. I | NFO. | : | | | | JP | 198 | 9-22 | 26642 | 2 | 19890 | 901 |

L20 ANSWER 145 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 136198-96-4 REGISTRY

ED Entered STN: 20 Sep 1991

CN 1H-Purine-2,6-dione, 3,7-dihydro-8-[1-methyl-2-(4-pyridinyl)ethyl]-1,3-dipropyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C19 H25 N5 O2

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 121:300909 CA

TITLE: Xanthine derivatives

INVENTOR(S): Suzuki, Fumio; Shimada, Junichi; Ishii, Akio; Ohno,

Tetsuji; Karasawa, Akira; Kubo, Kazuhiro; Nonaka,

Hiromi

PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan

SOURCE: U.S., 22 pp. Cont.-in-part of U.S. Ser No. 574,447,

abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| | | | | |
| US 5290782 | Α | 19940301 | US 1992-839690 | 19920224 |

US 5525607 A 19960611 US 1993-63684 19930520
PRIORITY APPLN. INFO.: JP 1989-226642 19890901
US 1990-574447 19900829
JP 1991-29796 19910225
US 1992-839690 19920224

REFERENCE 2

ACCESSION NUMBER: 115:158836 CA

TITLE: Preparation and formulation of 8-

(polycycloalkyl) xanthines and analogs as adenosine A1

receptor antagonists

INVENTOR(S): Suzuki, Fumio; Shimada, Junichi; Ishii, Akio; Ohno,

Tetsuji; Karasawa, Akira; Kubo, Kazuhiro; Nonaka,

Hiromi

PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 45 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

| PAS | TENT NO. | | KIND | DATE | | APPLI | CATION | NO. | DATE |
|----------|----------|--------|--------|-----------|-----|---------|--------|--------|----------|
| | | | | | | | | | |
| EP | 415456 | | A2 | 19910306 | | EP 19 | 90-116 | 791 | 19900831 |
| EP | 415456 | | A3 | 19910529 | | | | | |
| EP | 415456 | | B1 | 19960626 | | | | | |
| | R: AT | ', BE, | CH, DE | , DK, ES, | FR, | GB, GR, | IT, L | I, LU, | NL, SE |
| JP | 0317388 | 9 | A2 | 19910729 | | JP 19 | 90-228 | 941 | 19900830 |
| JP | 0610266 | 2 | B4 | 19941214 | | | | | |
| CA | 2024381 | | AA | 19910302 | | CA 19 | 90-202 | 4381 | 19900831 |
| CA | 2024381 | | C | 19970107 | | | | | |
| AT | 139778 | | E | 19960715 | | AT 19 | 90-116 | 791 | 19900831 |
| ES | 2091212 | | Т3 | 19961101 | | ES 19 | 90-116 | 791 | 19900831 |
| PRIORITY | Y APPLN. | INFO | . : | | | JP 19 | 89-226 | 642 | 19890901 |

L20 ANSWER 146 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 132940-41-1 REGISTRY

ED Entered STN: 29 Mar 1991

CN 1H-Purine-2,6-dione, 3,7-dihydro-1-methyl-8-(2-phenylethyl)-3-propyl-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C17 H20 N4 O2

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

116:151416 CA

TITLE:

1,3,8-Trisubstituted xanthines. Effects of

substitution pattern upon adenosine receptor A1/A2

affinity [Erratum to document cited in

CA114 (19):185119j]

AUTHOR (S):

Erickson, Ronald H.; Hiner, Roger N.; Feeney, Scott

W.; Blake, Paul R.; Rzeszotarski, Waclaw J.; Hicks,

Rickey P.; Costello, Diane G.; Abreu, Mary E.

CORPORATE SOURCE: SOURCE:

Nova Pharm. Corp., Baltimore, MD, 21224, USA Journal of Medicinal Chemistry (1991), 34(12), 3405

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE:

Journal English

LANGUAGE:

REFERENCE 2

ACCESSION NUMBER:

114:185119 CA

TITLE:

1,3,8-Trisubstituted xanthines. Effects of

substitution pattern upon adenosine receptor A1/A2

affinity

AUTHOR (S):

Erickson, Ronald H.; Hiner, Roger N.; Feeney, Scott

W.; Blake, Paul R.; Rzeszotarski, Waclaw J.; Hicks,

Rickey P.; Costello, Diane G.; Abreu, Mary E.

CORPORATE SOURCE:

Nova Pharm. Corp., Baltimore, MD, 21224, USA

SOURCE:

Journal of Medicinal Chemistry (1991), 34(4), 1431-5

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE:

LANGUAGE:

Journal English

L20 ANSWER 147 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 132940-40-0 REGISTRY

ED Entered STN: 29 Mar 1991

CN 1H-Purine-2,6-dione, 3,7-dihydro-3-methyl-8-(2-phenylethyl)-1-propyl-(9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C17 H20 N4 O2

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 116:151416 CA

1,3,8-Trisubstituted xanthines. Effects of TITLE:

substitution pattern upon adenosine receptor A1/A2

affinity [Erratum to document cited in

CA114 (19):185119j]

Erickson, Ronald H.; Hiner, Roger N.; Feeney, Scott AUTHOR (S):

W.; Blake, Paul R.; Rzeszotarski, Waclaw J.; Hicks,

Rickey P.; Costello, Diane G.; Abreu, Mary E.

Nova Pharm. Corp., Baltimore, MD, 21224, USA CORPORATE SOURCE:

Journal of Medicinal Chemistry (1991), 34(12), 3405 SOURCE:

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

English LANGUAGE:

REFERENCE 2

ACCESSION NUMBER: 114:185119 CA

1,3,8-Trisubstituted xanthines. Effects of TITLE:

substitution pattern upon adenosine receptor A1/A2

affinity

Erickson, Ronald H.; Hiner, Roger N.; Feeney, Scott AUTHOR (S):

W.; Blake, Paul R.; Rzeszotarski, Waclaw J.; Hicks,

Rickey P.; Costello, Diane G.; Abreu, Mary E.

CORPORATE SOURCE: Nova Pharm. Corp., Baltimore, MD, 21224, USA

SOURCE: Journal of Medicinal Chemistry (1991), 34(4), 1431-5

CODEN: JMCMAR; ISSN: 0022-2623

English LANGUAGE:

L20 ANSWER 148 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

Journal

132940-39-7 REGISTRY RN

Entered STN: 29 Mar 1991 ED

1H-Purine-2,6-dione, 3,7-dihydro-8-(2-phenylethyl)-1,3-dipropyl- (9CI) CN

(CA INDEX NAME)

FS 3D CONCORD

DOCUMENT TYPE:

MF C19 H24 N4 O2

SR CA

STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT LC

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

117:19919 CA ACCESSION NUMBER:

(E) -1, 3-Dialkyl-7-methyl-8-(3, 4, 5-TITLE:

trimethoxystyryl)xanthines: potent and selective

adenosine A2 antagonists

Shimada, Junichi; Suzuki, Fumio; Nonaka, Hiromi; AUTHOR (S):

Ishii, Akio; Ichikawa, Shunji

Pharm. Res. Lab., Kyowa Hakko Kogyo Co., Ltd., CORPORATE SOURCE:

Nagaizumicho, Japan

Journal of Medicinal Chemistry (1992), 35(12), 2342-5 SOURCE:

CODEN: JMCMAR; ISSN: 0022-2623

Journal DOCUMENT TYPE: English LANGUAGE:

REFERENCE 2

116:151416 CA ACCESSION NUMBER:

1,3,8-Trisubstituted xanthines. Effects of TITLE:

substitution pattern upon adenosine receptor A1/A2

affinity [Erratum to document cited in

CA114(19):185119j]

Erickson, Ronald H.; Hiner, Roger N.; Feeney, Scott AUTHOR (S):

W.; Blake, Paul R.; Rzeszotarski, Waclaw J.; Hicks,

Rickey P.; Costello, Diane G.; Abreu, Mary E.

Nova Pharm. Corp., Baltimore, MD, 21224, USA CORPORATE SOURCE:

Journal of Medicinal Chemistry (1991), 34(12), 3405 SOURCE:

CODEN: JMCMAR; ISSN: 0022-2623

Journal DOCUMENT TYPE: English LANGUAGE:

REFERENCE 3

114:185119 CA ACCESSION NUMBER:

1,3,8-Trisubstituted xanthines. Effects of TITLE:

substitution pattern upon adenosine receptor A1/A2

affinity

Erickson, Ronald H.; Hiner, Roger N.; Feeney, Scott AUTHOR (S):

W.; Blake, Paul R.; Rzeszotarski, Waclaw J.; Hicks,

Rickey P.; Costello, Diane G.; Abreu, Mary E.

Nova Pharm. Corp., Baltimore, MD, 21224, USA CORPORATE SOURCE:

Journal of Medicinal Chemistry (1991), 34(4), 1431-5 SOURCE:

CODEN: JMCMAR; ISSN: 0022-2623

Journal DOCUMENT TYPE: English LANGUAGE:

L20 ANSWER 149 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

130324-53-7 REGISTRY RN

Entered STN: 09 Nov 1990 ED

1H-Purine-2,6-dione, 3,7-dihydro-8-(1-methyl-2-phenylethyl)-1,3-dipropyl-, CN

(S) - (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C20 H26 N4 O2 SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX, IMSRESEARCH, PROUSDDR, USPATFULL

(*File contains numerically searchable property data)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)

5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

122:31546 CA

TITLE:

Preparation of xanthine-derivative adenosine A1

receptor antagonists

INVENTOR(S):

Hitchcock, Janice M.; Sorenson, Stephen M.; Dudley,

Mark W.; Peet, Norton P.

PATENT ASSIGNEE(S):

Merrell Dow Pharmaceuticals, Inc., USA

SOURCE:

PCT Int. Appl., 62 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PAT | TENT NO. | | | DAT | | | | PPLI | CATIO | ON NO | ٥. | DATE | | | | |
|-----|----------|-------|-------|--------|-------|-----|-----|------|---------|-------|-----|------|------|-----|-----|----|
| | | | | | | | | | | | | | | | | |
| WO | 9419349 | | | | | | | | | | | | | | | |
| | W: AT | | | | | | | | | | | | | | | |
| | JP | , KP, | KR, F | KZ, LK | , LU, | LV, | MG, | MN, | MW, | ΝL, | NO, | ΝZ, | PL, | PT, | RO, | |
| | RU | , SD, | SE, S | SK, UA | , US, | UΖ, | VN | | | | | | | | | |
| | RW: AT | , BE, | CH, I | DE, DK | , ES, | FR, | GB, | GR, | ΙE, | ΙT, | LU, | MC, | NL, | PT, | SE, | |
| | | | | CG, CI | | | | | | | | | | | | |
| CA | 2155130 | | AA | 199 | 40901 | | C | A 19 | 94-2 | 1551 | 30 | 1994 | 0127 | | | |
| CA | 2155130 | | С | 199 | 40901 | | | | | | | | | | | |
| AU | 9462968 | | A1 | 199 | 40914 | | Αl | U 19 | 94-6 | 2968 | | 1994 | 0127 | | | |
| AU | 680241 | | B2 | 199 | 70724 | | | | | | | | | | | |
| EP | 686155 | | A1 | 199 | 51213 | | E | P 19 | 94 - 91 | 1066 | 1 | 1994 | 0127 | | | |
| | 686155 | | | | | | | | | | · | | | | | |
| | R: AT | , BE, | CH, I | DE, DK | , ES, | FR, | GB, | GR, | ΙE, | ΙT, | LI, | LU, | MC, | NL, | PT, | SE |
| CN | 1118599 | | Α | 199 | 60313 | | C | N 19 | 94-1 | 9130 | 9 | 1994 | 0127 | | | |
| CN | 1041418 | | В | 199 | 81230 | | | | | | | | | | | |
| HU | 72677 | | A2 | 199 | 60528 | | H | U 19 | 95-2 | 495 | | 1994 | 0127 | | | |
| JΡ | 0851228 | 1 | T2 | 199 | 61224 | | J | P 19 | 94-5 | 1898 | 6 | 1994 | 0127 | | | |
| | 169019 | | E | 199 | 80815 | | A' | Т 19 | 94-9 | 1066 | 1 | 1994 | 0127 | | | |
| | | | | | | | | | | | | | | | | |

| ES 2120025 | T3 | 19981016 | ES | 1994-910661 | 19940127 |
|------------------------|----|----------|----|-------------|----------|
| ZA 9401176 | A | 19940920 | ZA | 1994-1176 | 19940221 |
| IL 108750 | A1 | 20000928 | IL | 1994-108750 | 19940223 |
| NO 9503353 | Α | 19950825 | NO | 1995-3353 | 19950825 |
| NO 311920 | В1 | 20020218 | | | |
| US 5840729 | A | 19981124 | US | 1995-500991 | 19951218 |
| PRIORITY APPLN. INFO.: | | | US | 1993-23501 | 19930226 |
| | | | WO | 1994-US1009 | 19940127 |
| | | | | | |

REFERENCE 2

ACCESSION NUMBER:

120:106635 CA

TITLE:

Xanthines with C8 chiral substituents as potent and

selective adenosine A1 antagonists

AUTHOR (S):

Peet, Norton P.; Lentz, Nelsen L.; Dudley, Mark W.;

Ogden, Ann Marie L.; McCarty, Deborah R.; Racke,

Margaret M.

CORPORATE SOURCE:

Marion Merrell Dow Res. Inst., Cincinnati, OH, 45215,

USA

SOURCE:

Journal of Medicinal Chemistry (1993), 36(25), 4015-20

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE:

LANGUAGE:

Journal English

REFERENCE 3

ACCESSION NUMBER:

116:98892 CA

TITLE:

A steric and electrostatic comparison of three models

for the agonist/antagonist binding site on the

adenosine Al receptor

AUTHOR (S):

Van der Wenden, Eleonora M.; IJzerman, Adriaan P.;

Soudijn, Willem

CORPORATE SOURCE:

Div. Med. Chem., Cent. Bio-Pharm. Sci., Leiden, 2300

RA, Neth.

SOURCE:

Journal of Medicinal Chemistry (1992), 35(4), 629-35

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE:

LANGUAGE:

Journal English

REFERENCE 4

ACCESSION NUMBER:

116:6578 CA

TITLE:

Preparation of 8-phenethyl- and 8-indon-2-yl-3,7-dihydro-1H-purine-2,6-diones as selective adenosine

receptor agents

INVENTOR(S):

Peet, Norton P.; Lentz, Nelson L.

PATENT ASSIGNEE(S):

Merrell Dow Pharmaceuticals, Inc., USA

SOURCE:

U.S., 15 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| US 5047534 | A | 19910910 | US 1990-499111 | 19900326 |
| AU 9173537 | A1 | 19911003 | AU 1991-73537 | 19910319 |
| AU 632914 | B2 | 19930114 | | |

| | 0100000 | | - | 10011004 | | | | |
|----------|----------|--------|----|----------|-----|-------|--------------|--------------|
| | 9102038 | | Α | 19911224 | | | 1991-2038 | |
| CA | 2038747 | | AA | 19910927 | | CA | 1991-2038747 | 19910321 |
| CA | 2038747 | | C | 20020528 | | | | |
| IL | 97656 | | A1 | 19960618 | | IL | 1991-97656 | 19910322 |
| FI | 9101420 | | Α | 19910927 | | FI | 1991-1420 | 19910325 |
| FI | 98461 | | В | 19970314 | | | | |
| FI | 98461 | | C | 19970625 | | | | |
| NO | 9101200 | | A | 19910927 | | NO | 1991-1200 | 19910325 |
| NO | 177591 | | В | 19950710 | | | | |
| NO | 177591 | | С | 19951018 | | | | |
| HU | 56570 | | A2 | 19910930 | | HU | 1991-985 | 19910325 |
| HU | 208824 | | В | 19940128 | | | | |
| EP | 449175 | | A2 | 19911002 | | EP | 1991-104668 | 19910325 |
| EP | 449175 | | A3 | 19930120 | | | | |
| EP | 449175 | | B1 | 19970730 | | | | |
| | | BE. C | | | FR. | GB. G | R, IT, LI, L | U. NL. SE |
| CN | 1055181 | , - | A | 19911009 | | | 1991-101892 | |
| | 1032815 | | В | 19960918 | | | | |
| | 156130 | | E | 19970815 | | ΔТ | 1991-104668 | 19910325 |
| | 2107431 | | T3 | 19971201 | | | 1991-104668 | 19910325 |
| | 195368 | | B1 | 19990615 | | | 1991-4660 | 19910325 |
| | | | | | | | | - |
| | 04221384 | | A2 | 19920811 | | JP | 1991-84512 | 19910326 |
| _ | 3181305 | | B2 | 20010703 | | | | |
| PRIORITY | APPLN. | INFO.: | | | | US | 1990-499111 | 19900326 |

REFERENCE 5

ACCESSION NUMBER: 114:6142 CA

A novel synthesis of xanthines: support for a new TITLE:

binding mode for xanthines with respect to adenosine

at adenosine receptors

Peet, Norton P.; Lentz, Nelsen L.; Meng, Elaine C.; Dudley, Mark W.; Ogden, Ann Marie L.; Demeter, David A.; Weintraub, Herschel J. R.; Bey, Philippe AUTHOR (S):

Merrell Dow Res. Inst., Cincinnati, OH, 45215, USA CORPORATE SOURCE:

Journal of Medicinal Chemistry (1990), 33(12), 3127-30 SOURCE:

CODEN: JMCMAR; ISSN: 0022-2623

Journal DOCUMENT TYPE:

English LANGUAGE:

ANSWER 150 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

130324-52-6 REGISTRY

Entered STN: 09 Nov 1990 ED

1H-Purine-2,6-dione, 3,7-dihydro-8-(1-methyl-2-phenylethyl)-1,3-dipropyl-, CN(R) - (9CI) (CA INDEX NAME)

FS STEREOSEARCH

C20 H26 N4 O2 MF

SR

STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX, IMSDRUGNEWS, LC IMSRESEARCH, PROUSDDR, USPATFULL

(*File contains numerically searchable property data)

Absolute stereochemistry.

6 REFERENCES IN FILE CA (1907 TO DATE)

6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 122:31546 CA

TITLE: Preparation of xanthine-derivative adenosine Al

receptor antagonists

INVENTOR(S): Hitchcock, Janice M.; Sorenson, Stephen M.; Dudley,

Mark W.; Peet, Norton P.

PATENT ASSIGNEE(S): Merrell Dow Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| | TENT NO | | | | | | | | | | | | | DATE | | | | |
|---------|-----------------|------|-------|-----|-----|------|------|-----|------------------|------|--------|------|-----|------|------|-----|-----|----|
| | 941934 | | | | | | | | | | | | | | | | | |
| | W: A | AΤ, | AU, | BB, | BG, | BR, | BY, | CA, | CH, | CN, | CZ, | DĒ, | DK, | ES, | FI, | GB, | HU, | |
| | j | JP, | ΚP, | KR, | ΚZ, | LK, | LU, | LV, | MG, | MN, | MW, | NL, | NO, | NZ, | PL, | PT, | RO, | |
| | I | RU, | SD, | SE, | SK, | UA, | US, | UZ, | VN | | | | | | | | | |
| | RW: A | ΑT, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | ΙE, | IT, | LU, | MC, | NL, | PT, | SE, | |
| | | | | | | | | | | | | | | TD, | | | | |
| | 215513 | | | | | | | | CZ | 19 | 94-2 | 1551 | 30 | 1994 | 0127 | | | |
| | 215513 | | | | | | | | | | | | | | | | | |
| | 946296 | | | | | | | | JΑ | J 19 | 94-6 | 2968 | | 1994 | 0127 | | | |
| | 68024 | | | | | | | | | | | | | | | | | |
| | 686155 | | | | | | | | EI | ? 19 | 94 - 9 | 1066 | 1 | 1994 | 0127 | | | |
| | 686155 | | | | | | | | | | | | | | | | | |
| | R: 7 | | | | | | | | | | | | | | | | PT, | se |
| | 111859 | | | | | | | | Cì | 1 19 | 94-1 | 9130 | 9 | 1994 | 0127 | | | |
| CN | 10414 | 18 | | В | | 1998 | 1230 | | | | | | | | | | | |
| HU | 72677 085122 | | | A: | 2 | 1996 | 0528 | | H | J 19 | 95-2 | 495 | | 1994 | 0127 | | | |
| JP | 085122 | 281 | | T: | 2 | 1996 | 1224 | | JI | ? 19 | 94-5 | 1898 | 6 | 1994 | 0127 | | | |
| | 169019 | | | | | | | | | | | | | | | | | |
| ES | 212002 | 25 | | T | 3 | 1998 | 1016 | | ES | 3 19 | 94-9 | 1066 | 1 | 1994 | 0127 | | | |
| ZA | 94011 | 76 | | Α | | 1994 | 0920 | | \mathbf{z}_{I} | 1 19 | 94-1 | 176 | | 1994 | 0221 | | | |
| | 10875 | | | | | | | | | | | | | | | | | |
| ИО | 95033 | 53 | | Α | | 1995 | 0825 | | NO |) 19 | 95-3 | 353 | | 1995 | 0825 | | | |
| ИО | 311920 | 0 | | B | 1 | 2002 | 0218 | | | | | | | | | | | |
| | 584072 | | | | | | | | | | | | | | | | | |
| PRIORIT | Y APPLI | v. 1 | INFO. | . : | | | | | US | 3 19 | 93-2 | 3501 | | 1993 | 0226 | | | |

WO 1994-US1009 19940127

REFERENCE 2

ACCESSION NUMBER: 120:106635 CA

TITLE: Xanthines with C8 chiral substituents as potent and

selective adenosine Al antagonists

AUTHOR(S): Peet, Norton P.; Lentz, Nelsen L.; Dudley, Mark W.;

Ogden, Ann Marie L.; McCarty, Deborah R.; Racke,

Margaret M.

CORPORATE SOURCE: Marion Merrell Dow Res. Inst., Cincinnati, OH, 45215,

USA

SOURCE: Journal of Medicinal Chemistry (1993), 36(25), 4015-20

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE 3

ACCESSION NUMBER: 116:98892 CA

TITLE: A steric and electrostatic comparison of three models

for the agonist/antagonist binding site on the

adenosine A1 receptor

AUTHOR(S): Van der Wenden, Eleonora M.; IJzerman, Adriaan P.;

Soudijn, Willem

CORPORATE SOURCE: Div. Med. Chem., Cent. Bio-Pharm. Sci., Leiden, 2300

RA, Neth.

SOURCE: Journal of Medicinal Chemistry (1992), 35(4), 629-35

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE 4

ACCESSION NUMBER: 116:51717 CA

TITLE: The three binding domain model of adenosine receptors:

molecular modeling aspects

AUTHOR(S): Dooley, Michael J.; Quinn, Ronald J.

CORPORATE SOURCE: Div. Sci. Technol., Griffith Univ., Brisbane, 4111,

Australia

SOURCE: Journal of Medicinal Chemistry (1992), 35(2), 211-16

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE 5

ACCESSION NUMBER: 116:6578 CA

TITLE: Preparation of 8-phenethyl- and 8-indon-2-yl-3,7-

dihydro-1H-purine-2,6-diones as selective adenosine

receptor agents

INVENTOR(S): Peet, Norton P.; Lentz, Nelson L.

PATENT ASSIGNEE(S): Merrell Dow Pharmaceuticals, Inc., USA

SOURCE: U.S., 15 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. DATE |
|-----------------|------------|------------|--------------------------------|
| US 5047534 | Α | 19910910 | US 1990-499111 1990032 |
| AU 9173537 | A1 | 19911003 | AU 1991-73537 1991031 |
| AU 632914 | B2 | 19930114 | |
| ZA 9102038 | A | 19911224 | ZA 1991-2038 1991031 |
| CA 2038747 | · AA | 19910927 | CA 1991-2038747 1991032 |
| CA 2038747 | C | 20020528 | |
| | | | IL 1991-97656 1991032 |
| FI 9101420 | A | 19910927 | FI 1991-1420 1991032 |
| FI 98461 | В | 19970314 | |
| FI 98461 | C | 19970625 | |
| NO 9101200 | A | 19910927 | NO 1991-1200 1991032 |
| NO 177591 | В | | |
| NO 177591 | | 19951018 | |
| HU 56570 | A2 | 19910930 | HU 1991-985 1991032 |
| HU 208824 | | | |
| EP 449175 | A2 | 19911002 | EP 1991-104668 1991032 |
| EP 449175 | A3 | 19930120 | |
| EP 449175 | B1 | 19970730 | |
| R: AT, | BE, CH, DE | E, DK, ES, | FR, GB, GR, IT, LI, LU, NL, SE |
| CN 1055181 | A | 19911009 | CN 1991-101892 1991032 |
| CN 1032815 | В | 19960918 | |
| AT 156130 | E | 19970815 | AT 1991-104668 1991032 |
| ES 2107431 | Т3 | 19971201 | ES 1991-104668 1991032 |
| KR 195368 | B1 | 19990615 | KR 1991-4660 1991032 |
| JP 04221384 | A2 | 19920811 | JP 1991-84512 1991032 |
| JP 3181305 | B2 | 20010703 | |
| PRIORITY APPLN. | | | US 1990-499111 1990032 |

REFERENCE 6

114:6142 CA ACCESSION NUMBER:

A novel synthesis of xanthines: support for a new TITLE:

binding mode for xanthines with respect to adenosine

at adenosine receptors

Peet, Norton P.; Lentz, Nelsen L.; Meng, Elaine C.; AUTHOR(S):

Dudley, Mark W.; Ogden, Ann Marie L.; Demeter, David A.; Weintraub, Herschel J. R.; Bey, Philippe

Merrell Dow Res. Inst., Cincinnati, OH, 45215, USA CORPORATE SOURCE:

Journal of Medicinal Chemistry (1990), 33(12), 3127-30 SOURCE:

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal English LANGUAGE:

L20 ANSWER 151 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

130277-36-0 REGISTRY RN

Entered STN: 09 Nov 1990 ED

1H-Purine-2,6-dione, 3,7-dihydro-8-(1-methyl-2-phenylethyl)-1,3-dipropyl-CN (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

1H-Purine-2,6-dione, 3,7-dihydro-8-(1-methyl-2-phenylethyl)-1,3-dipropyl-, CN (\pm) -

3D CONCORD FS

DR 131080-38-1

MF C20 H26 N4 O2

SR

STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX, IMSRESEARCH, LC

PROUSDDR

(*File contains numerically searchable property data)

$$\begin{array}{c|c} & \text{N-Pr} & \text{Me} \\ & & & \\ & & \text{CH-CH}_2\text{--Ph} \\ & & \\ & & \text{N-Pr} & \\ & & \\ & & \\ & & \\ \end{array}$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

120:106635 CA ACCESSION NUMBER:

Xanthines with C8 chiral substituents as potent and TITLE:

selective adenosine Al antagonists

Peet, Norton P.; Lentz, Nelsen L.; Dudley, Mark W.; AUTHOR (S):

Ogden, Ann Marie L.; McCarty, Deborah R.; Racke,

Margaret M.

Marion Merrell Dow Res. Inst., Cincinnati, OH, 45215, CORPORATE SOURCE:

USA

Journal of Medicinal Chemistry (1993), 36(25), 4015-20 SOURCE:

CODEN: JMCMAR; ISSN: 0022-2623

Journal DOCUMENT TYPE: English LANGUAGE:

REFERENCE 2

114:61823 CA ACCESSION NUMBER:

8-(Dicyclopropylmethyl)-1,3-dipropylxanthine: a TITLE:

potent and selective adenosine A1 antagonist with

renal protective and diuretic activities

Shimada, Junichi; Suzuki, Fumio; Nonaka, Hiromi; AUTHOR (S):

Karasawa, Akira; Mizumoto, Hideaki; Ohno, Tetsuji;

Kubo, Kazuhiro; Ishii, Akio

Pharm. Res. Lab., Kyowa Hakko Kogyo Co., Ltd., Sunto, CORPORATE SOURCE:

411, Japan

Journal of Medicinal Chemistry (1991), 34(1), 466-9 SOURCE:

CODEN: JMCMAR; ISSN: 0022-2623

Journal DOCUMENT TYPE: English LANGUAGE:

REFERENCE 3

114:6142 CA ACCESSION NUMBER:

A novel synthesis of xanthines: support for a new TITLE:

binding mode for xanthines with respect to adenosine

at adenosine receptors

Peet, Norton P.; Lentz, Nelsen L.; Meng, Elaine C.; AUTHOR (S):

Dudley, Mark W.; Ogden, Ann Marie L.; Demeter, David

A.; Weintraub, Herschel J. R.; Bey, Philippe

Merrell Dow Res. Inst., Cincinnati, OH, 45215, USA CORPORATE SOURCE: SOURCE:

Journal of Medicinal Chemistry (1990), 33(12), 3127-30

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal English LANGUAGE:

L20 ANSWER 152 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

126235-09-4 REGISTRY RN

Entered STN: 06 Apr 1990 ED

1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-(2-phenylethyl)- (9CI) CN

(CA INDEX NAME)

OTHER NAMES:

NSC 14319 CN

3D CONCORD FS

C15 H16 N4 O2 MF

SR

BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL STN Files: LC

(*File contains numerically searchable property data)

Me
$$\stackrel{\text{N}}{\underset{\text{N}}{\bigvee}}$$
 $\stackrel{\text{H}}{\underset{\text{N}}{\bigvee}}$ CH_2 $\stackrel{\text{CH}}{\underset{\text{CH}_2}{\bigvee}}$ Ph

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10 REFERENCES IN FILE CA (1907 TO DATE)

10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

142:101178 CA ACCESSION NUMBER:

Determination of the lipophilicity of xanthines by TITLE:

reversed-phase liquid chromatography

Gondova, Tatana; Vincova, Milena; Florian, Karol AUTHOR (S):

Faculty of Sciences, Department Physical and CORPORATE SOURCE:

Analytical Chemistry, P.J. Safarik University, Kosice,

040 01, Slovakia

Journal of Planar Chromatography--Modern TLC (2004), SOURCE:

17(2), 156-158

CODEN: JPCTE5; ISSN: 0933-4173

Research Institute for Medicinal Plants PUBLISHER:

Journal DOCUMENT TYPE: English LANGUAGE:

THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS 14 REFERENCE COUNT:

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

REFERENCE 2

ACCESSION NUMBER: 141:225195 CA

Determination of the lipophilicity of some purines by TITLE:

reversed-phase liquid chromatography AUTHOR (S): Gondova, Tat'ana; Durd'akova, Dasa Faculty of Sciences, Department of Physical and CORPORATE SOURCE: Analytical Chemistry, P. J. Safarik University, Kosice, SK-040 01, Slovakia Transactions of the Universities of Kosice (2003), SOURCE: (3), 62-64CODEN: TUKRAA Technical University of Kosice PUBLISHER: DOCUMENT TYPE: Journal English LANGUAGE: THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE 3 141:99661 CA ACCESSION NUMBER: Identification of compounds suitable as agonists TITLE: and/or antagonists of adenosine A2A receptor coupled to specific G proteins, and use of identified compounds in treatment of various disorders in mammals Fredholm, Bertil B.; Kull, Bjoern INVENTOR(S): Actar Ab, Swed. PATENT ASSIGNEE(S): PCT Int. Appl., 22 pp. SOURCE: CODEN: PIXXD2 DOCUMENT TYPE: Patent English LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: APPLICATION NO. DATE KIND DATE PATENT NO. WO 2004058974 A1 20040715 -----WO 2003-SE2086 20031229 WO 2004058974 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG PRIORITY APPLN. INFO.: US 2002-436480P 20021227 REFERENCE 4 ACCESSION NUMBER: 140:87658 CA Peptidomimetic modulators of cell adhesion TITLE: Gour, Barbara J.; Blaschuk, Orest W.; Ali, Anmar; Ni, INVENTOR (S):

Feng; Chen, Zhigang; Michaud, Stephanie Denise; Wang,

Shaomeng; Hu, Zengjian

PATENT ASSIGNEE(S): Can.

U.S. Pat. Appl. Publ., 280 pp., Cont.-in-part of U.S. SOURCE:

Ser. No. 6,982.

CODEN: USXXCO

DOCUMENT TYPE: Patent English LANGUAGE: 15

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| | | | | |
| US 2004006011 | A1 | 20040108 | US 2003-425557 | 20030428 |
| US 6031072 | Α | 20000229 | US 1997-893534 | 19970711 |
| US 6326352 | B1 | 20011204 | US 2000-507102 | 20000217 |
| US 2002168761 | A1 | 20021114 | US 2001-769145 | 20010124 |
| US 2002151475 | A1 | 20021017 | US 2001-6982 | 20011204 |
| US 6914044 | B2 | 20050705 | | |
| PRIORITY APPLN. INFO.: | : | | US 1996-21612P | 19960712 |
| | | | US 1997-893534 | 19970711 |
| | | | US 2000-491078 | 20000124 |
| | | | US 2000-507102 | 20000217 |
| | | | US 2001-769145 | 20010124 |
| | | | US 2001-6982 | 20011204 |

REFERENCE 5

ACCESSION NUMBER: 139:270241 CA

TITLE: Inhibition of monoamine oxidase B by selective

adenosine A2A receptor antagonists

AUTHOR(S): Petzer, Jacobus P.; Steyn, Salome; Castagnoli, Kay P.;

Chen, Jiang-Fan; Schwarzschild, Michael A.; Van der

Schyf, Cornelis J.; Castagnoli, Neal

CORPORATE SOURCE: Department of Chemistry, Virginia Tech, Blacksburg,

VA, 24061-0212, USA

SOURCE: Bioorganic & Medicinal Chemistry (2003), 11(7),

1299-1310

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

REFERENCE 6

ACCESSION NUMBER: 137:363033 CA

TITLE: Peptidomimetic modulators of cell adhesion

INVENTOR(S): Gour, Barbara J.; Blaschuk, Orest W.; Ali, Anmar; Ni,

Feng; Chen, Zhigang; Michaud, Stephanie D.; Wang,

Shoameng; Hu, Zenjian

PATENT ASSIGNEE(S): Can.

SOURCE: U.S. Pat. Appl. Publ., 309 pp., Cont.-in-part of U.S.

Ser. No. 491,078.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 15

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------|------|----------|-----------------|----------|
| | | | | |
| US 2002168761 | A1 | 20021114 | US 2001-769145 | 20010124 |
| US 2004058864 | A1 | 20040325 | US 2003-412701 | 20030410 |
| US 2004006011 | A1 | 20040108 | US 2003-425557 | 20030428 |
| PRIORITY APPLN. INFO. | : | | US 2000-491078 | 20000124 |
| | | | US 1996-21612P | 19960712 |

CH, CN, GM, HR, HU

US 1997-893534 19970711 US 2000-507102 20000217 US 2001-769145 20010124 US 2001-6982 20011204

REFERENCE 7

ACCESSION NUMBER: 135:147398 CA

Peptidomimetic modulators of cell adhesion TITLE:

Gour, Barbara J.; Blaschuk, Orest W.; Ali, Anmar; Ni, INVENTOR (S):

Feng; Chen, Zhigang; Michaud, Stephanie Denise; Wang,

Shoameng; Hu, Zengjian

PATENT ASSIGNEE(S): Adherex Technologies, Inc., Can.

PCT Int. Appl., 416 pp. SOURCE:

CODEN: PIXXD2

Patent DOCUMENT TYPE: English LANGUAGE:

FAMILY ACC. NUM. COUNT: 15

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|--------|---------------|--------------------|----------------------|
| | | | | |
| WO 2001053331 | A2 | 20010726 | WO 2001-US2508 | 20010124 |
| WO 2001053331 | A3 | 20020711 | | |
| WO 2001053331 | C2 | 20021031 | | • |
| W: AE, AG, | AL, AM | , AT, AU, AZ, | BA, BB, BG, BR, BY | , BZ, CA, CH, CN, |
| CR, CU, | CZ, DE | , DK, DM, DZ, | EE, ES, FI, GB, GD | , GE, GH, GM, HR, HU |
| , ID, II | L, IN, | IS, JP, KE, F | G, KP, KR, KZ, LC, | LK, LR, LS, LT, LU, |
| | | | | |

SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,

PRIORITY APPLN. INFO.: US 2000-491078 20000124

REFERENCE 8

ACCESSION NUMBER: 120:118098 CA

Molar heat capacities of some derivatives of uracil TITLE:

and theophylline

Gondova, T.; Gonda, J.; Kralik, P. AUTHOR(S):

CORPORATE SOURCE: Department of Physical and Analytical Chemistry,

Faculty of Sciences, P.J. Safarik University,

Moyzesova 11, Kosice, 04167, Czech.

Thermochimica Acta (1993), 225(1), 37-41 SOURCE:

CODEN: THACAS; ISSN: 0040-6031

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE 9

ACCESSION NUMBER: 112:166363 CA

Determination of some thermodynamic characteristics of TITLE:

melting of 8-alkyltheophyllines by the DSC method

AUTHOR (S): Gondova, T.; Kralik, P.; Gonda, J.

CORPORATE SOURCE: Fac. Sci., P. J. Safarik Univ., Kosice, CS-041 67,

Czech.

SOURCE: Thermochimica Acta (1989), 156(1), 147-55 CODEN: THACAS; ISSN: 0040-6031

DOCUMENT TYPE:

Journal English LANGUAGE:

REFERENCE 10

ACCESSION NUMBER:

49:16010 CA

TITLE:

Theophylline derivatives. II. 8-Aralkyltheophyllines

and related compds.

AUTHOR (S):

Hager, Geo. P.; Krantz, John C., Jr.; Harmon, John B.;

Burgison, Raymond M.

CORPORATE SOURCE:

Univ. of Maryland, Baltimore

SOURCE:

Journal of the American Pharmaceutical Association

(1912-1977) (1954), 43, 152-5 CODEN: JPHAA3; ISSN: 0003-0465

DOCUMENT TYPE:

Journal Unavailable LANGUAGE:

L20 ANSWER 153 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 115469-01-7 REGISTRY

Entered STN: 30 Jul 1988 ED

Ferrocene, [3-(2,3,6,7-tetrahydro-1,3-dimethyl-2,6-dioxo-1H-purin-8-CN

yl)propyl] - (9CI) (CA INDEX NAME)

C20 H22 Fe N4 O2 MF

CCS CI

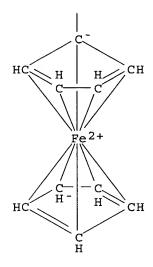
SR CA

STN Files: CA, CAPLUS, TOXCENTER LC

PAGE 1-A

Me N NH
$$(CH_2)_3$$

PAGE 2-A



- 3 REFERENCES IN FILE CA (1907 TO DATE)
- 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 140:159975 CA

TITLE: Synthesis, characterization, and evaluation of

ferrocene-theophylline conjugates for use in

electrochemical enzyme immunoassay

AUTHOR(S): Forrow, Nigel J.; Foulds, Nicola C.; Frew, Jane E.;

Law, John T.

CORPORATE SOURCE: MediSense (UK) Ltd., Abbott Laboratories, Abingdon,

Oxon, OX14 1TR, UK

SOURCE: Bioconjugate Chemistry (2004), 15(1), 137-144

CODEN: BCCHES; ISSN: 1043-1802

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

REFERENCE 2

ACCESSION NUMBER: 109:226148 CA

TITLE: The development of redox-modified electrodes as

charge-accumulating devices for use in higher

sensitivity detection systems

AUTHOR(S): Chambers, Jill A.; Walton, Nicholas J.

CORPORATE SOURCE: Inorg. Chem. Lab., Univ. Oxford, Oxford, OX1 3QR, UK

SOURCE: Journal of Electroanalytical Chemistry and Interfacial

Electrochemistry (1988), 250(2), 417-25

CODEN: JEIEBC; ISSN: 0022-0728

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE 3

ACCESSION NUMBER: 109:51298 CA

TITLE: An electrochemical assay using an electron-

transferring mediator compound for the determination

of an analyte in a sample

INVENTOR(S): Walton, Nicholas John; Chambers, Gill Alison

PATENT ASSIGNEE(S): Genetics International, Inc., USA

SOURCE: Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW
DOCUMENT TYPE: Patent

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------|-----------|----------|-----------------|----------|
| | | | | |
| EP 241309 | A2 | 19871014 | EP 1987-303166 | 19870410 |
| EP 241309 | A3 | 19900509 | | |
| R: CH, DE, | FR, GB | , IT, LI | | |
| JP 62294958 | A2 | 19871222 | JP 1987-87208 | 19870410 |
| PRIORITY APPLN. INFO. | . : | | GB 1986-8700 | 19860410 |

L20 ANSWER 154 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 111382-89-9 REGISTRY

ED Entered STN: 21 Nov 1987

CN 3-Carbamoyl-1-[2-(1,2,3,6-tetrahydro-1,3-dimethyl-2,6-dioxopurin-8-yl)ethyl]pyridinium chloride (6CI) (CA INDEX NAME)

MF C15 H17 N6 O3 . Cl

SR CAOLD

LC STN Files: CA, CAOLD, CAPLUS, TOXCENTER

CRN (805970-77-8)

Me N
$$CH_2 - CH_2 - N + CH_2$$

Me N $CH_2 - CH_2 - N + CH_2$

Me N $CH_2 - CH_2 - N + CH_2$

● C1 -

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1

ACCESSION NUMBER: 52:84045 CA

TITLE: New aminoalkyl derivatives of theophylline

AUTHOR(S): Daweke, H.; Oberdorf, A.

CORPORATE SOURCE: Mediz. Akad. Dusseldorf, Germany

SOURCE: Arzneimittel-Forschung (1958), 8, 190-6

CODEN: ARZNAD; ISSN: 0004-4172

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

L20 ANSWER 155 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 109436-68-2 REGISTRY

ED Entered STN: 25 Jul 1987

CN Theophylline, 8-piperonyl- (6CI) (CA INDEX NAME)

OTHER NAMES:

CN NSC 74360

FS 3D CONCORD

MF C15 H14 N4 O4

SR CAOLD

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS

(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1

ACCESSION NUMBER:

52:113865 CA

TITLE:

8-Substituted theophyllines

INVENTOR(S):

Burgison, Raymond M., Jr.; Hager, Geo. P.; Burgison,

R. M.; Hager, G. P.

PATENT ASSIGNEE(S):

Krantz, John C.

DOCUMENT TYPE:

Patent

LANGUAGE:

Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND DATE APPLICATION NO. DATE

US 2840559 19580624 US

REFERENCE 2

ACCESSION NUMBER:

50:69464 CA

TITLE:

Aryl ketones and thio morpholides in the synthesis of

8-substituted xanthines

AUTHOR(S):

Hager, Geo. P.; Kramer, Stanley P.

CORPORATE SOURCE:

Univ. of Maryland, Baltimore

SOURCE:

Journal of the American Pharmaceutical Association

(1912-1977) (1955), 44, 649-53 CODEN: JPHAA3; ISSN: 0003-0465

DOCUMENT TYPE:

Journal

LANGUAGE:

Unavailable

L20 ANSWER 156 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 108902-66-5 REGISTRY

ED Entered STN: 28 Jun 1987

CN Theophylline, 8-(p-aminobenzyl)-, hydrochloride (6CI) (CA INDEX NAME)

MF C14 H15 N5 O2 . Cl H

SR CAOLD

LC STN Files: CA, CAOLD, CAPLUS

CRN (6937-57-1)

Me N
$$H$$
 CH_2 NH_2

HCl

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1

ACCESSION NUMBER: 52:113865 CA

TITLE: 8-Substituted theophyllines

INVENTOR(S): Burgison, Raymond M., Jr.; Hager, Geo. P.; Burgison,

R. M.; Hager, G. P.

PATENT ASSIGNEE(S): Krantz, John C.

DOCUMENT TYPE: Patent
LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2840559 19580624 US

L20 ANSWER 157 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 108670-88-8 REGISTRY

ED Entered STN: 13 Jun 1987

CN 1H-Purine-2,6-dione, 3,7-dihydro-8-(phenylmethyl)-1,3-dipropyl- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C18 H22 N4 O2

SR CA

LC STN Files: CA, CAPLUS

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 116:98892 CA

A steric and electrostatic comparison of three models TITLE:

for the agonist/antagonist binding site on the

adenosine A1 receptor

AUTHOR(S): Van der Wenden, Eleonora M.; IJzerman, Adriaan P.;

Soudijn, Willem

Div. Med. Chem., Cent. Bio-Pharm. Sci., Leiden, 2300 CORPORATE SOURCE:

RA, Neth.

Journal of Medicinal Chemistry (1992), 35(4), 629-35 SOURCE:

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE 2

ACCESSION NUMBER: 115:149734 CA

Mapping the xanthine C8-region of the adenosine A1 TITLE:

receptor with computer graphics

Van der Wenden, Eleonora M.; Van Galen, Philip J. M.; AUTHOR (S):

Ijzerman, Adriann P.; Soudijn, Willem

Div. Med. Chem., Cent. Bio-Pharm. Sci., Leiden, 2300 CORPORATE SOURCE:

RA, Neth.

SOURCE: European Journal of Pharmacology, Molecular

Pharmacology Section (1991), 206(4), 315-23

CODEN: EJPPET; ISSN: 0922-4106

DOCUMENT TYPE: Journal

English LANGUAGE:

REFERENCE 3

107:259 CA ACCESSION NUMBER:

TITLE: Potent adenosine receptor antagonists that are

selective for the A1 receptor subtype

Martinson, Elizabeth A.; Johnson, Roger A.; Wells, AUTHOR(S):

Jack N.

Sch. Med., Vanderbilt Univ., Nashville, TN, 37232, USA CORPORATE SOURCE:

Molecular Pharmacology (1987), 31(3), 247-52 SOURCE:

CODEN: MOPMA3; ISSN: 0026-895X

DOCUMENT TYPE: Journal

LANGUAGE: English L20 ANSWER 158 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 101092-80-2 REGISTRY

ED Entered STN: 29 Mar 1986

CN p-Toluic acid, α -(1,2,3,6-tetrahydro-1,3-dimethyl-2,6-dioxopurin-8-

yl) - (6CI) (CA INDEX NAME)

FS 3D CONCORD

MF C15 H14 N4 O4

SR CAOLD

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS

(*File contains numerically searchable property data)

Me N
$$\sim$$
 CH₂ \sim CO₂H

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1

ACCESSION NUMBER: 53:17285 CA

TITLE: Derivatives of N-methylxanthine. II.

8-(p-Carboxyphenyl) theophylline and

8-(p-carboxybenzyl)theophylline

AUTHOR(S): Kompis, I.; Mokry, J.; Tanchyna, J.

CORPORATE SOURCE: Slovenska akad. vied, chem. ustav, Bratislava, Czech.

SOURCE: Chemicke Zvesti (1958), 12, 519-24

CODEN: CHZVAN; ISSN: 0366-6352

DOCUMENT TYPE: Journal LANGUAGE: German

REFERENCE 2

ACCESSION NUMBER: 53:17284 CA

TITLE: Some products of transformation of diastereoisomeric

 γ -ethyl- β -(N-carbethoxyamino) caprylic acids

AUTHOR(S): Zvorykina, V. K.; Neiland, O. Ya.

CORPORATE SOURCE: N.D. Zelinskii Inst. Org. Chem., Moscow

SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya

(1958) 1099-103

CODEN: IASKA6; ISSN: 0002-3353

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

L20 ANSWER 159 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 99949-89-0 REGISTRY

ED Entered STN: 01 Feb 1986

CN Xanthine, 8-benzyl-1-hexyl-3-methyl- (7CI) (CA INDEX NAME)

FS 3D CONCORD

MF C19 H24 N4 O2

SR CAOLD

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1

ACCESSION NUMBER:

56:73525 CA

TITLE:

8-Substituted-1,3-dialkylxanthines

INVENTOR(S):
PATENT ASSIGNEE(S):

Schuh, Heinz Georg v. Chemische Werke Albert

DOCUMENT TYPE:

Patent

LANGUAGE:

Unavailable

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| | | | | |
| DE 1091570 | | 19601027 | DE | 19581023 |

- L20 ANSWER 160 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
- RN 96793-66-7 REGISTRY
- ED Entered STN: 15 Jun 1985
- CN 1-[(1,2,3,6-Tetrahydro-1,3-dimethyl-2,6-dioxopurin-8-yl)methyl]pyridinium chloride (6CI, 7CI) (CA INDEX NAME)
- MF C13 H14 N5 O2 . C1
- LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS

(*File contains numerically searchable property data)

CRN (497079-99-9)

● C1 -

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1

ACCESSION NUMBER: 56:73473 CA

TITLE: Syntheses in the purine series. XIII. The preparation

of several xanthine-8-aldehydes

AUTHOR(S): Bredereck, Hellmut; Siegel, Edgar; Foehlisch, Baldur

CORPORATE SOURCE: Tech. Hochschule, Stuttgart, Germany

SOURCE: Chemische Berichte (1962), 95, 403-13

CODEN: CHBEAM; ISSN: 0009-2940

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

REFERENCE 2

ACCESSION NUMBER: 54:2368 CA

TITLE: Mono and dimethylxanthine derivatives

INVENTOR(S): Kallischnigg, Rolf

PATENT ASSIGNEE(S): Knoll Akt.-Ges. Chemische Fabriken

DOCUMENT TYPE: Patent
LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 2879271 19590324 US

L20 ANSWER 161 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 95461-78-2 REGISTRY

ED Entered STN: 23 Mar 1985

CN Ferrocene, [(2,3,6,7-tetrahydro-1,3-dimethyl-2,6-dioxo-1H-purin-8-

yl)methyl] - (9CI) (CA INDEX NAME)

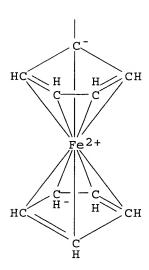
MF C18 H18 Fe N4 O2

CI CCS

LC STN Files: CA, CAPLUS

PAGE 1-A

PAGE 2-A



- 2 REFERENCES IN FILE CA (1907 TO DATE)
- 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

140:159975 CA

TITLE:

Synthesis, characterization, and evaluation of ferrocene-theophylline conjugates for use in electrochemical enzyme immunoassay

AUTHOR(S): Forrow, Nigel J.; Foulds, Nicola C.; Frew, Jane E.;

Law, John T.

CORPORATE SOURCE: MediSense (UK) Ltd., Abbott Laboratories, Abingdon,

Oxon, OX14 1TR, UK

SOURCE: Bioconjugate Chemistry (2004), 15(1), 137-144

CODEN: BCCHES; ISSN: 1043-1802

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

REFERENCE COUNT:

THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

REFERENCE 2

ACCESSION NUMBER:

102:128355 CA

TITLE:

Assay techniques utilising specific binding agents

INVENTOR(S):

Hill, Hugh Allen Oliver

PATENT ASSIGNEE(S):

Genetics International, Inc., USA

SOURCE:

Eur. Pat. Appl., 97 pp. CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

| PATENT | NO. | | | APPLICATION NO. | |
|------------|-----------------|----------|----------|---------------------------------|----------------------|
| EP 125 | | A2 | | EP 1984-303090 | · |
| | 5139 | | | | |
| | BE, CH, | | | L, SE | |
| | | | | | 19840504 |
| AU 842 | 27753 | A1 | 19841108 | CA 1984-453584 AU 1984-27753 | 19840507 |
| AU 569 | 9076 | B2 | 19880121 | | |
| AII 842 | 7754 | ΔΊ | 19841108 | AU 1984-27754 | 19840507 |
| AU 580 | 257 | B2 | 19890112 | | |
| JP 600 | 17360 | A2 | 19850129 | JP 1984-90831 AU 1984-27752 | 19840507 |
| AU 842 | 27752 | A1 | 19850131 | AU 1984-27752 | 19840507 |
| AU 564 | 1495 | B2 | 19870813 | | |
| | 2627 | | 19850620 | WO 1984-GB432 | 19841214 |
| | AU, JP, | | | | |
| AU 853 | 88329 8258 | A1 | 19850626 | AU 1985-38329 | 19841214 |
| AU 583 | 3258 | B2 | 19890427 | | |
| EP 149 | 9339 | A2 | 19850724 | EP 1984-308773 | 19841214 |
| | 9339 | | | | |
| | 339 | | | | |
| | | | | I, LU, NL, SE | |
| JP 615 | 00706 | T2 | 19860417 | JP 1985-500369 | 19841214 |
| AT 457 | 772 | E | 19890915 | AT 1984-308773 | |
| CA 122 | 23639 | Al | 19870630 | CA 1984-470321 | |
| US 484 | 0893 | A | 19890620 | US 1985-769629 JP 1997-36786 | 19851015 |
| JP 093 | 325127 26430 | AZ DO | 19971216 | JP 1997-36786 | 19970220 |
| JP 302 | 26430 | B2 | 20000327 | TD 1000 000015 | 1000000 |
| | 00055865 | | 20000225 | JP 1999-238347 | 19990825 |
| | 3813 | | 20001030 | GD 1002 12250 | 10020505 |
| PRIORITY A | FLM. INFO | • • | | GB 1983-12259 | |
| | | | | GB 1983-12263 | 19830505 19830505 |
| | | | | GB 1983-12265 GB 1983-25316 | 19830505 |
| | | | | GB 1983-25316 GB 1983-33650 | |
| | | | | GD 1303-33030 | 13031710 |

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GB 1983-33651
                 19831216
GB 1984-1399
                 19840119
GB 1984-5262
                 19840229
                 19840229
GB 1984-5263
                 19830505
GB 1983-12261
GB 1983-12262
                 19830505
GB 1983-23799
                 19830906
GB 1983-33644
                 19831216
GB 1984-650
                 19840111
JP 1984-90832
                 19840507
JP 1997-36786
                 19840507
EP 1984-308773
                 19841214
WO 1984-GB432
                 19841214
```

L20 ANSWER 162 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN
RN 74039-64-8 REGISTRY
ED Entered STN: 16 Nov 1984
CN 1H-Purine-2,6-dione, 8-[4-(1H-benzimidazol-2-yl)butyl]-3,7-dihydro-1,3-dimethyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN NSC 81509

FS 3D CONCORD

MF C18 H20 N6 O2

LC STN Files: RTECS*

(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 ANSWER 163 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN RN 73908-81-3 REGISTRY

ED Entered STN: 16 Nov 1984

CN 1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-[(2-nitrophenyl)methyl](9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C14 H13 N5 O4

LC STN Files: RTECS*

Me N
$$CH_2$$
 O
 M
 O
 M
 O
 M

L20 ANSWER 164 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 31542-58-2 REGISTRY

ED Entered STN: 16 Nov 1984

CN Xanthine, 8-benzyl-3-[2-(dimethylamino)ethyl]-1-ethyl- (8CI) (CA INDEX

NAME)

OTHER NAMES:

CN NSC 71753

FS 3D CONCORD

MF C18 H23 N5 O2

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 74:40820 CA

TITLE: Effects of xanthine derivatives on lipolysis and on

adenosine 3',5'-monophosphate phosphodiesterase

activity

AUTHOR(S): Beavo, Joseph A.; Rogers, Nancy L.; Crofford, Oscar

B.; Hardman, Joel G.; Sutherland, Earl W.; Newman,

Elliot V.

CORPORATE SOURCE: Sch. Med., Vanderbilt Univ., Nashville, TN, USA

SOURCE: Molecular Pharmacology (1970), 6(6), 597-603

CODEN: MOPMA3; ISSN: 0026-895X

DOCUMENT TYPE: Journal LANGUAGE: English

L20 ANSWER 165 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 28345-99-5 REGISTRY

12/05/2005

Entered STN: 16 Nov 1984 ED

1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-(3-pyridinylmethyl)- (9CI) CN

(CA INDEX NAME)

OTHER CA INDEX NAMES:

Theophylline, 8-(3-pyridylmethyl)- (8CI)

OTHER NAMES:

8-(3'-Pyridylmethyl)theophylline CN8-(3-Pyridylmethyl) theophylline CN

3D CONCORD FS

C13 H13 N5 O2 ΜF

STN Files: BEILSTEIN*, CA, CAPLUS, RTECS* LC

(*File contains numerically searchable property data)

Me N
$$CH_2$$
 N

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

74:141706 CA

TITLE:

8-(3-Pyridylmethyl) theophylline derivatives

AUTHOR(S):

Lespagnol, Albert; Debaert, Michel; Minard-Vaillant,

Nicole

CORPORATE SOURCE:

Lab. Pharm. Chim., U.E.R. Pharm., Lille, Fr.

SOURCE:

Chimica Therapeutica (1970), 5(5), 321-6

DOCUMENT TYPE:

CODEN: CHTPBA; ISSN: 0009-4374

Journal French

LANGUAGE: REFERENCE 2

ACCESSION NUMBER:

74:21695 CA

TITLE:

Pharmacodynamic study of derivatives of

 γ -(3-pyridylmethyl)theophylline

AUTHOR (S):

Debaert, Michel; Laude, F.; Minard-Vaillant, Mrs.;

Robelet, Alfred

CORPORATE SOURCE:

Lab. Physiol. Appl. Pharmacol., Fac. Med., Lille, Fr.

SOURCE:

Therapie (1970), 25(4), 683-706

CODEN: THERAP; ISSN: 0040-5957

DOCUMENT TYPE: LANGUAGE:

Journal

French

REFERENCE 3

ACCESSION NUMBER:

74:19728 CA

TITLE:

Determination of the inhibitory activity of some

substituted theophyllines on the phosphodiesterase specific for the adenosine 3',5'-monophosphate Lespagnol, Albert; Debaert, Michel; Mizon, Jacques;

Mizon-Capron, Charlotte

CORPORATE SOURCE: Lab. Pharm. Chim. Biol., U.E.R. Pharm., Lille,

Fr.

SOURCE: Therapie (1970), 25(4), 707-13

CODEN: THERAP; ISSN: 0040-5957

DOCUMENT TYPE: Journal

LANGUAGE: French

L20 ANSWER 166 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 7145-52-0 REGISTRY

ED Entered STN: 16 Nov 1984

CN 1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-(2-thienylmethyl)- (9CI)

(CA INDEX NAME)
OTHER CA INDEX NAMES:

CN Theophylline, 8-(2-thenyl)- (8CI)

OTHER NAMES: CN NSC 74355

AUTHOR (S):

FS 3D CONCORD

MF C12 H12 N4 O2 S

LC STN Files: BEILSTEIN*, CA, CAPLUS, USPATFULL

(*File contains numerically searchable property data)

Me N N
$$CH_2$$
 S Me Me

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER: 126:305588 CA

TITLE: Preparation of 4-(dioxopurinylmethyl)phenylacetates

and analogs as hypolipemics

INVENTOR(S): Connell, Richard; Goldmann, Siegfried; Mueller,

Ulrich; Lohmer, Stefan; Bischoff, Hilmar; Denzer,

Dirk; Gruetzmann, Rudi; Wohlfeil, Stefan

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Eur. Pat. Appl., 69 pp.

CODEN: EPXXDW DOCUMENT TYPE: Patent

LANGUAGE: German FAMILY ACC. NUM. COUNT: 1

FAMILY ACC. NUM. COUNT: I

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

_______ EP 764647 A1 19970326 EP 1996-114577 19960912 R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE DE 19535504 Α1 19970327 DE 1995-19535504 19950925 US 5714494 19980203 US 1996-710503 19960918 Α JP 09216884 19970819 JP 1996-267691 A2 19960919 CA 2186086 AA 19970326 CA 1996-2186086 19960920 PRIORITY APPLN. INFO.: DE 1995-19535504 19950925

REFERENCE 2

ACCESSION NUMBER:

49:16011 CA

TITLE:

Theophylline derivatives. III. 8-(9-

AUTHOR(S):

Fluorenyl) theophylline and related compounds
Hager, Geo. P.; Ichniowski, Casimir T.; Wisek, Bernard

CORPORATE SOURCE:

Univ. of Maryland, Baltimore

SOURCE:

Journal of the American Pharmaceutical Association

(1912-1977) (1954), 43, 156-8 CODEN: JPHAA3; ISSN: 0003-0465

DOCUMENT TYPE:

Journal

LANGUAGE:

Unavailable

L20 ANSWER 167 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 6937-57-1 REGISTRY

ED Entered STN: 16 Nov 1984

CN 1H-Purine-2,6-dione, 8-[(4-aminophenyl)methyl]-3,7-dihydro-1,3-dimethyl-

(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Theophylline, 8-(p-aminobenzyl)- (6CI)

OTHER NAMES:

CN NSC 14388

FS 3D CONCORD

MF C14 H15 N5 O2

CI COM

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, USPATFULL (*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1

ACCESSION NUMBER:

141:225208 CA

Preparation of sulfonamide substituted xanthine TITLE:

derivatives as PEPCK inhibitors

Foley, Louise Helen; Huby, Nicholas John Silvester; INVENTOR(S):

Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,

Pete William

PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.

PCT Int. Appl., 124 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

KIND DATE PATENT NO. APPLICATION NO. DATE WO 2004074288 A1 20040902 WO 2004-EP1289 20040212 WO 2004074288 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2004-776697 20040211 CA 2004-2514472 20040212 EP 2004-710346 20040212 A1 20040930 US 2004192708 AA 20040902 CA 2514472 A1 20051130 EP 1599477 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRIORITY APPLN. INFO.: US 2003-448562P 20030219

US 2003-448652P 20030219

US 2004-536561P 20040115

WO 2004-EP1289 20040212

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS 2 REFERENCE COUNT:

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

REFERENCE 2

ACCESSION NUMBER:

52:113865 CA

TITLE:

8-Substituted theophyllines

INVENTOR(S):

Burgison, Raymond M., Jr.; Hager, Geo. P.; Burgison,

R. M.; Hager, G. P.

PATENT ASSIGNEE(S):

Krantz, John C.

DOCUMENT TYPE: LANGUAGE:

Patent Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

US 2840559

US 2840559 19580624 US

REFERENCE 3

ACCESSION NUMBER:

50:69464 CA

TITLE:

Aryl ketones and thio morpholides in the synthesis of

8-substituted xanthines

AUTHOR (S):

Hager, Geo. P.; Kramer, Stanley P.

CORPORATE SOURCE:

Univ. of Maryland, Baltimore

SOURCE:

Journal of the American Pharmaceutical Association

(1912-1977) (1955), 44, 649-53

CODEN: JPHAA3; ISSN: 0003-0465

DOCUMENT TYPE:

LANGUAGE:

Journal Unavailable

REFERENCE 4

ACCESSION NUMBER:

49:16010 CA

TITLE:

Theophylline derivatives. II. 8-Aralkyltheophyllines

and related compds.

AUTHOR (S):

Hager, Geo. P.; Krantz, John C., Jr.; Harmon, John B.;

Burgison, Raymond M.

CORPORATE SOURCE:

Univ. of Maryland, Baltimore

SOURCE:

Journal of the American Pharmaceutical Association

(1912-1977) (1954), 43, 152-5 CODEN: JPHAA3; ISSN: 0003-0465

DOCUMENT TYPE:

LANGUAGE:

Journal Unavailable

L20 ANSWER 168 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 5429-48-1 REGISTRY

ED Entered STN: 16 Nov 1984

CN 1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-(1-naphthalenylmethyl)-

(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Theophylline, 8-(1-naphthylmethyl)- (5CI)

OTHER NAMES:

CN NSC 14147

FS 3D CONCORD

MF C18 H16 N4 O2

LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

ACCESSION NUMBER:

50:74075 CA

TITLE:

The preparation of some structure hybrids of

N-methylated xanthine and 2-substituted imidazoles

AUTHOR(S): Kostolansky, A.; Mokry, J.; Tamchyna, J. CORPORATE SOURCE: Sloven. Akad. Vied., Bratislava, Czech.

SOURCE: Sloven. Akad. Vied., Bratislava, Czec. Source: Chemicke Zvesti (1956), 10, 96-109

CODEN: CHZVAN; ISSN: 0366-6352

DOCUMENT TYPE: Journal

LANGUAGE: German

REFERENCE 2

ACCESSION NUMBER: 49:16010 CA

TITLE: Theophylline derivatives. II. 8-Aralkyltheophyllines

and related compds.

AUTHOR(S): Hager, Geo. P.; Krantz, John C., Jr.; Harmon, John B.;

Burgison, Raymond M.

CORPORATE SOURCE: Univ. of Maryland, Baltimore

SOURCE: Journal of the American Pharmaceutical Association

(1912-1977) (1954), 43, 152-5 CODEN: JPHAA3; ISSN: 0003-0465

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

L20 ANSWER 169 OF 169 REGISTRY COPYRIGHT 2005 ACS on STN

RN 2879-15-4 REGISTRY

ED Entered STN: 16 Nov 1984

CN 1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-8-(phenylmethyl)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Theophylline, 8-benzyl- (7CI, 8CI)

OTHER NAMES:

CN 8-Benzyltheophylline

CN NSC 14131

FS 3D CONCORD

MF C14 H14 N4 O2

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,

CHEMLIST, CSCHEM, IPA, PS, RTECS*, TOXCENTER, USPATFULL (*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

36 REFERENCES IN FILE CA (1907 TO DATE)

36 REFERENCES IN FILE CAPLUS (1907 TO DATE)

5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1

142:101178 CA ACCESSION NUMBER:

Determination of the lipophilicity of xanthines by TITLE:

reversed-phase liquid chromatography

Gondova, Tatana; Vincova, Milena; Florian, Karol AUTHOR (S):

Faculty of Sciences, Department Physical and CORPORATE SOURCE:

Analytical Chemistry, P.J. Safarik University, Kosice,

040 01, Slovakia

Journal of Planar Chromatography--Modern TLC (2004), SOURCE:

17(2), 156-158

CODEN: JPCTE5; ISSN: 0933-4173

Research Institute for Medicinal Plants PUBLISHER:

Journal DOCUMENT TYPE: English LANGUAGE:

THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 14 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

REFERENCE 2

ACCESSION NUMBER: 141:225195 CA

Determination of the lipophilicity of some purines by TITLE:

reversed-phase liquid chromatography

Gondova, Tat'ana; Durd'akova, Dasa AUTHOR(S):

Faculty of Sciences, Department of Physical and CORPORATE SOURCE:

Analytical Chemistry, P. J. Safarik University,

Kosice, SK-040 01, Slovakia

Transactions of the Universities of Kosice (2003), SOURCE:

> (3), 62-64CODEN: TUKRAA

Technical University of Kosice PUBLISHER:

DOCUMENT TYPE: Journal English LANGUAGE:

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 9

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT ...

REFERENCE 3

135:251414 CA ACCESSION NUMBER:

Structural predictions of adenosine 2B antagonist TITLE:

affinity using molecular field analysis

AUTHOR(S):

Song, Yuqing; Coupar, Ian M.; Iskander, Magdy N. Department of Medicinal Chemistry, Victorian College CORPORATE SOURCE:

of Pharmacy, Monash University, Parkville, 3052,

Australia

SOURCE: Quantitative Structure-Activity Relationships (2001),

20(1), 23-30

CODEN: OSARDI; ISSN: 0931-8771

PUBLISHER: Wiley-VCH Verlag GmbH

Journal DOCUMENT TYPE: English LANGUAGE:

THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS 27 REFERENCE COUNT:

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

REFERENCE 4

124:288523 CA ACCESSION NUMBER:

Kinetic studies of the reactions of TITLE:

2-diethylaminoethyl chloride with nucleophilic

reagents in N, N-dimethylformamide

AUTHOR(S):

Yang, H.; Thyrion, F. C.

CORPORATE SOURCE:

Chemical Engineering Institute, Louvain University,

Louvain-la-Neuve, B-1348, Belg.

SOURCE:

Bulletin des Societes Chimiques Belges (1996), 105(1),

23-31

CODEN: BSCBAG; ISSN: 0037-9646

PUBLISHER:

Societe Chimique Belges

DOCUMENT TYPE:

Journal

LANGUAGE:

English

REFERENCE 5

ACCESSION NUMBER:

121:230560 CA

TITLE:

8-Substituted 7-(oxoalkyl)theophyllines

AUTHOR (S):

Rybar, A.; Turcani, P.; Alfoldi, J.

CORPORATE SOURCE:

Institute of Chemistry, Slovak Academy of Sciences, Bratislava, SK-842 38, Slovakia

SOURCE:

Chemical Papers (1994), 48(1), 47-50

CODEN: CHPAEG; ISSN: 0366-6352

DOCUMENT TYPE:

Journal

LANGUAGE:

English

REFERENCE 6

ACCESSION NUMBER:

121:179412 CA

TITLE:

Method for converting a xanthine ring or derivatives

thereof into dialkylamino-xanthine derivatives Thyrion, Fernand; Yang, Hong; Parmantier, Michel

INVENTOR(S):

S.A. Nycomed Christiaens N.V., Belg.

PATENT ASSIGNEE(S): SOURCE:

PCT Int. Appl., 19 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

| PAT | CENT 1 | 10. | | KI | ND. | DATE | | | AP | PLI | CATI | ои ис | ٥. | DATE | | | |
|----------|--------|-----|------|-----|-----|------|------|-----|-----|-----|------|-------|-----|------|------|-----|----|
| | | | | | | | | | | | | | | | | | |
| WO | 94170 | | | A. | 1 | 1994 | 0804 | | WO | 19 | 94-B | E6 | | 1994 | 0119 | | |
| | W: | US | | | | | | | | | | | | | | | |
| | RW: | AT, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | ΙE, | IT, | LU, | MC, | NL, | PT, | SE |
| BE | 10066 | 513 | | A. | 3 | 1994 | 1103 | | | | 93-5 | | | 1993 | | | |
| EP | 68047 | 79 | | A. | 1 | 1995 | 1108 | | EP | 19 | 94-9 | 03710 |) | 1994 | 0119 | | |
| EP | 68047 | 79 | | B | 1 | 1999 | 0317 | | | | | | | | | | |
| | R: | AT, | CH, | DE, | FR, | GB, | IT, | LI, | LU | | | | | | | | |
| AT | 17774 | 15 | | Ε | | 1999 | 0415 | | AT | 19 | 94-9 | 03710 |) | 1994 | 0119 | | |
| US | 57393 | 331 | | Α | | 1998 | 0414 | | US | 19 | 95-4 | 92046 | 5 | 1995 | 0929 | | |
| PRIORITY | Y APPI | LN. | INFO | . : | | | | | BE | 19 | 93-5 | 9 | | 1993 | 0121 | | |
| | | | | | | | | | WO | 19 | 94-B | E6 | | 1994 | 0119 | | |

REFERENCE 7 ,

ACCESSION NUMBER:

120:118098 CA

TITLE:

Molar heat capacities of some derivatives of uracil

and theophylline

AUTHOR(S):

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SOURCE:

Thermochimica Acta (1993), 225(1), 37-41

CODEN: THACAS; ISSN: 0040-6031

DOCUMENT TYPE: LANGUAGE:

Journal English

REFERENCE 8

ACCESSION NUMBER:

114:150301 CA

TITLE:

Determination of bamifylline hydrochloride impurities in bulk material and pharmaceutical forms using liquid

chromatography with ultraviolet detection

AUTHOR(S):

Carlucci, G.; Colanzi, A.; Mazzeo, P.

CORPORATE SOURCE:

Dip. Chim. Inq. Chim. Mater., Univ. Aguila, L'Aguila,

67100, Italy

SOURCE:

Journal of Pharmaceutical and Biomedical Analysis

(1990), 8(8-12), 1067-9

CODEN: JPBADA; ISSN: 0731-7085

DOCUMENT TYPE: LANGUAGE:

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REFERENCE 9

ACCESSION NUMBER:

114:6142 CA

TITLE:

A novel synthesis of xanthines: support for a new binding mode for xanthines with respect to adenosine

at adenosine receptors

AUTHOR (S):

Peet, Norton P.; Lentz, Nelsen L.; Meng, Elaine C.; Dudley, Mark W.; Ogden, Ann Marie L.; Demeter, David A.; Weintraub, Herschel J. R.; Bey, Philippe

CORPORATE SOURCE:

SOURCE:

Merrell Dow Res. Inst., Cincinnati, OH, 45215, USA Journal of Medicinal Chemistry (1990), 33(12), 3127-30

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE:

LANGUAGE:

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REFERENCE 10

ACCESSION NUMBER:

112:166363 CA

TITLE:

Determination of some thermodynamic characteristics of

melting of 8-alkyltheophyllines by the DSC method

AUTHOR (S):

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Thermochimica Acta (1989), 156(1), 147-55

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